



The QCWA Journal

Volume 37, No. 3

Fall, 1988

32 Pages \$2.00

Dog Days Over • QCWA Gears For Action

Portland, Oregon -- QCWA officers descended in force on the 1988 National ARRL Convention held this year in the beautiful City of Portland. QCWA Prexy, Leland Smith, W5KL; QCWA Secretary, Jim Walsh, W7LVN; QCWA Directors, Lew McCoy, W1ICP, El Charlton, W5MD and Arthur Kay, W5APX, all took part in the activities, meeting with all amateurs, and working hard to acquaint the fraternity with QCWA and what it stands for. A full report on what transpired will be offered in the Winter issue of the QCWA Journal - not time enough to get it into the Fall issue. It is certainly significant when so many highly placed officers take the time and spend their money to get involved to this extent! We're proud of them.

Headquarters, QCWA -- The QCWA Board of Directors has taken steps to make studies and to take part in an effort to make certain that a number of matters of interest to all

amateurs are properly considered in Federal Communications Commission docket cases. Two cases are especially urgent at this time - the proposal in D88-139, dealing with revision of the Rules governing Amateur Radio (Part 97) and, the Commission's proposal to fragment the 220 - 225 MHz band, giving 40% to an untried, uncertain and probably unnecessary service, Land Mobile! The Board is working cooperatively and constructively in these areas.

On the Membership Front -- The Board has set up a convenient way for members to transfer funds to QCWA for dues payments, supplies, etc. . . . by establishing an account with American Express, Visa and Mastercard that will permit using those services. An announcement is included in this issue of the Journal.

The Membership National QSO Party will be coming in February - March, and full plans

and rules will appear in the Winter Issue of the Journal.

The latter part of September will see the clan gathering in McLean, Virginia, for the Annual QCWA Convention for 1988. The program has been announced, and the meeting is expected to be a record setting event. It will be covered and reported on, in detail, in the Winter QCWA Journal.

The 1988 election is now history, a full report appears on Page 79 of this issue of the Journal. The 1989 election will include election of all officer positions and of five Directors.

41st Anniversary

THE QCWA INTERNATIONAL NET - 14347 kHz

Some confusion exists in getting the Sunday afternoon QCWA Net check-ins lined up for easy handling. A procedure has been established by Herb Gleed, W6FQ. The outline of the checkin procedure beginning at 2000 GMT is, as follows:

Check in is by groups. The groups are determined by the letter following the numeral in your call. That is for example, W4KFC - the letter following the numeral is "K". The group can be found from the listing below:

Group 1 - Letters A through E

Group 3 - Letters K through O

Group 2 - Letters F through J

Group 4 - Letters P through T

Group 5 - Letters U through Z

Another example, the call W5JHS - letter is "J", and J is in Group 2 above; A final example: the call W4WKQ - the letter is "W", and W is in group 5 above.

Net Control asks for checkins by group numbers as given above. Listen and check in properly.

Do not tune-up on or near 14347. The frequency is in use by the Ex-G net who give it to us at 2000 hours. They are courteous to us, return the favor!

Finally, be brief with your remarks, the last group has to wait nearly 2 hours to get a change to say hello. You can help by knowing what you want to say before starting.

QCWA ON THE AIR MEETING

CW, each Wednesday Evening

8:00 PM, Eastern Time, 7035 kHz

NCS Alternating - W5QU / W4PI

QCWA ON THE AIR MEETING

PHONE, SSB, each Sunday Afternoon

2000 GMT, 14347 kHz,

NCS - W6FQ

QCWA HEADQUARTERS ADDRESS

QCWA, Inc.
1409 Cooper Dr
Irving, TX 75061-552
Telephone 214 438 8038

Quarter Century Wireless Association, Inc.



HONOR AWARDS

QCWA HALL OF FAME

1980	MR. RAY MEYERS, W6MLZ
1981	MR. BILL HALLIGAN, W9AC
1982	MR. BARRY GOLDWATER, K7UGA
1983	MR. JEAN-B. WOLFF, LX1JW
1984	MR. DON WALLACE, W6AM
1986	MR. GEORGE STERLING, W1AE
1987	MR. VICTOR CLARK, W4KFC

DISTINGUISHED SERVICE AWARD

1975	MR. A. L. WALSH, W2BW
1979	MR. MARK DEVANEY, K4IDC
1988	MR. DAVID TALLEY, W2PF

MEMBER OF THE YEAR

1979	MR. ED TROMBLEY, W8CAM
1981	MR. LEW SIECK, K4NE
1982	MR. HERB GLEED, W6FQ
1984	MR. BERT GUNN, W5FU

ROLL OF HONOR

1981	MR. JOHN DiBLASI, W2FX
1981	MR. GUS GIRONDA, W2JE
1985	MR. BUD WAITE, W2ZK
1986	MR. EARL THOMAS, W2MM
1986	MR. RALPH BARBER, W2ZM
1987	MS. ETHEL SMITH, K4LMB

JOHN DiBLASI AWARD

1984	MR. HAL SEARS, W5NC
1986	MR. OWEN GARRIOTT, W5LFL
1988	MR. CLARENCE SEID, W2KW



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THE PRESIDENT'S MESSAGE

Elsewhere in this Journal, the complete results of the 1988 QCWA elections are tabulated. The candidates for office on the ballot were all unquestionably well qualified, motivated and dedicated. You have by your vote elected those you felt will best serve QCWA for the next two years.

Many of you are aware that the QCWA Board of Directors has been very active in recent years. It has met twice each year in formal sessions. There is almost continuous communication on the air, by mail and telephone between the Officers, Directors and the General Manager. Several members at their own expense travel extensively regionally, nationally and even internationally to visit Chapters and appear before groups on behalf of QCWA. The influence of QCWA for promoting the advancement of amateur radio and the protection of our privileges has become widely known. Although not a political organization, QCWA is obligated to fulfill its purposes. In doing so we must continue to take stands on matters which either adversely or positively affect our membership or amateur radio in general.

Every member of your present Board, as well as General Manager Heithecker, is an active on the air amateur. Each encompasses a vast amount of talent, experience and loyalty to QCWA and our hobby. The Board is your action voice on matters of policy. For the Board to operate properly you must continue to express your opinions to the Officers and Directors. If you wish to air your views directly to the membership, send your thoughts to the Editor of the Journal.

I look forward to seeing all of you who will be participating in the Annual Meeting in McLean, Virginia, September 23 - 25, 1988.

73,

/s/ Leland Smith, W5KL

PAST PRESIDENTS

Mr. John DiBlasi, W2FX*	1947-1964
Mr. Earl R. Thomas, W2MM*	1965-1968
Mr. Clarence Seid, W2KW	1969-1971
Mr. Barry Goldwater, K7UGA	1972-1973
Mr. Frank A. Gunther, W2ALS	1974-1977
Mr. Harry S. Gartsman, W6ATC	1978-1981
Mr. Stuart Meyer, W2GHK	1982-1985

EXECUTIVE SECRETARY/GENERAL MANAGER

Mr. Ralph Barber, W2ZM*	1955-1964
Mr. Gus Girona, W2JE	1965-1973
Ms. Ethel Smith, K4LMB	1973-1976

Ted Heithecker, W5EJ	General Manager
J. R. Neelands, W6DLL	Books & Publications
Harry Neben, W9QB	Funtest Editor
Nadine Wells, W5ZUT	Office Secretary
Ruth Chance, K5YL	Office Secretary
Herb Lipson, W8FBH	Computer Editor
Joseph E. Ash, W9ODV	Cartoonist
Clarence King, Jr., K6HPW	Life Member Rcd

1988-1989 QCWA OFFICERS AND DIRECTORS

Leland Smith, W5KL, President HCR-31, Box 147, Jasper, AR 72641	501 428 5967
Hugh Winter, W5HD, Vice President PO Box 14904, Albuquerque, NM 87191	505 293 5735
Jim Walsh, W7LVN, Secretary 159 E 16th St, Eugene, OR 97401	503 344 3321
Wesley Randles, W4COW, Treasurer 6002 N Fremont St, Tampa, FL 33604	813 870 0867
Travis Baird, W9VQD, Director 6815 N Ironwood Ln, Milwaukee, WI 53217	414 352 9642
El Charlton, W5MD, Director 1533 Outrigger Dr, Baton Rouge, LA 70816	504 275 5744
Esther Given, W6BDE, Director 117 La Granada, Moss Beach, CA 94038	415 728 3110
Fred Hammond, VE3HC, Director 81 College Ave, Guelph, ON N1G 1S2	519 822 2960
Arthur Kay, W5APX, Director 104 Hampshire, Box 241-C, Shelbyville, TN 37160	615 684 3554
John Kelleher, W4ZC, Director 612 Ednor Rd, Silver Spring, MD 20904	301 924 1605
Lew McCoy, W1ICP, Director 200 Idaho St, Silver City, NM 88061	505 388 4862
Stuart Meyer, W2GHK, Director 2417 Newton St, Vienna, VA 22180	703 281 3806
Leo Meyerson, W0GFQ, Director 69911 Via Del Sur, Cathedral City, CA 92234	619 321 1138
Hal Sears, W5NC, Director PO Box 38245, Houston, TX 77088	713 367 0552

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QCWA CONVENTION PROGRAM

TENTATIVE SCHEDULE OF EVENTS

FRIDAY, September 23, 1988

9:00 AM - Noon Conference warmup

1:30 PM FAR Forum - W3ELS Moderator
FAR (Foundation for Amateur Radio) activities
FAR Scholarship program

2:30 PM FCC Forum - W2GHK Moderator
Robert MacNamara
Ralph Haller, N4RH
John Johnston, W3BE

4:00 PM ARRL Forum - N4MM Moderator
ARRL Headquarters personnel
John Kanode, N4MM

SATURDAY, September 24, 1988

9:00 AM Open Board Session

10:30 AM Clarence Seid, W2KW Museum video presentation
Harry Moore, W2JQS

11:15 AM Closed Board Session

1:00 PM RFI - Lou McCoy, W1ICP

2:00 PM Antennas and their accessories
Stu Meyer, W2GHK

2:30 PM Something new in high-power amplifiers
A super rotator
Bob Sullivan, W0YVA

3:15 PM Concluding Board Report

4:00 PM QCWW meeting

6:00 PM No Host Reception

7:00 PM Banquet

Notes: Try to schedule your arrival at Dulles International Airport which has scheduled bus service as follows:

WASHINGTON FLYER SERVICE (07/25/88)

Leave Airport for Hotel		Leave Hotel for Airport	
7:15am	3:15pm	8:07am	4:07pm
8:45am	4:45pm	9:37am	5:37pm
10:15am	6:15pm	11:07am	7:07pm
12:15am	8:15pm	1:07pm	9:07pm
1:45pm	10:00pm	2:37pm	10:00pm

Tyson's to/from National Airport is by reservation only, call 684-1400. One-way \$9.00, round trip \$17.00



SEE YOU AT McLEAN!

QCWA PRESIDENT LELAND SMITH, W5KL

NAMES NOMINATING COMMITTEE FOR 1989 ELECTION

In accordance with the By-Laws, President Leland Smith, W5KL, submitted his choice of members making up the 1989 Nominating Committee to the Board of Directors, at its Irving meeting. The Board approved the following members who are charged with putting together a slate of candidates for election to ALL officer positions and to FIVE director positions to be filled in the summer, 1989 election. Those chosen and who have accepted the responsibility to serve are:

Joe Moskey, W1JMY - 49 Fairwood Farms Dr.,
West Hartford, CT 06107 (203 521 4567)

Marvin Ollendorf, W4HAH - 1655 Executive Park Ln,
Atlanta, GA 30329 (404 634 4673)

Dave Willemin, A18M - 331 Courtland St,
Elyria, OH 44035 (216 324 4574)

Pat Stewart, W7GVC - 1404 Ruth Ave,
Walla Walla, WA 99362 (509 525 1699)

The group is chaired by Joe Moskey, W1JMY.

Time is real short now for you or your chapter to submit names of good men or women who would, if elected, serve as officers or on the Board. The most important thing to remember is to find highly qualified men or women who are willing to put forth their best effort on behalf of QCWA. QCWA needs the best each successful candidate can give. If you can come up with some potential candidates, write to any of the above listed Committee Members, provide information available, and the Committee will contact your proposed candidates to get added information which might be required before naming them as official candidates in the 1989 election.

QCWA Officers and Board members wish to thank the Committee for its willingness to take on this task. Their efforts on behalf of QCWA are appreciated.

OFFICER NOMINATIONS BY MEMBERSHIP PETITION

Petitions to place a candidates name on the election ballot may be made directly by membership, if desired. The rules are relatively simple:

- (1) The proposed candidate must have been in good standing in QCWA for the past two years and in good standing at the time his name is submitted by petition.
- (2) A petition must be signed by no less than 50 members in good standing and must be submitted to the office of the Secretary of QCWA no later than December 31, 1988 (postmarks are not acceptable).

Suitable forms for nomination by petition may be obtained free of charge from QCWA Headquarters.

If you wish to submit a petition, get the necessary forms, and then obtain no less than 50 signatures (a good idea to have at least 10% more than that, to insure that there are at least 50 valid signatures on the document).

Time is short, but if you wish to nominate by petition, there is yet time to get the job done. Make certain that your candidate has stated that he/she will serve if elected. Candidates must submit, with the petition, a photograph (passport size) together with a short statement of their qualifications and their plans for the future of QCWA.

A resume of all candidates, with pictures, where available, will be printed in the Spring, 1989 QCWA Journal.

THE FCC SLAPS DOWN THE AMATEURS

You have all heard of the August 4, 1988 travesty - The FCC confirmed its own proposal to allocate 220 - 222 MHz to the Land Mobile Service. From the day the FCC dropped pretenses by the acceptance of a filing by UPS six months after the deadline for such filings, it was apparent that the die was cast. In this action the Commission simply turned its back on administrative procedures, on fairness and on fact.

Remaining now is the route of attempting a reversal of the FCC decision by going into every available administrative, judicial and legislative remedy. Time is so short for such action that we simply cannot, in the Journal, alert membership to the need to support the activities of the League. We hope that you read the stories in QST, and that you act to support all efforts to regain the spectrum which we are almost certainly losing. The ARRL is going all-out in its efforts to save 220-225 MHz. They deserve all the help we can give!

At this point, it is almost certain that the Commission, having taken the flack now, will certainly not back out of its decision without very powerful pressure from Congressional leaders.

EDITORIAL MUSINGS

This issue of the Journal contains letters written by members in response to the "No Code" story in the Summer QCWA Journal. We have been amazed at the thoughtful responses received from a number of members. One thing is certain - QCWA members are very concerned about the future of Amateur Radio and are giving thought to ways and means to see that our privileges are not lost.

We have carefully read all of the comments received - most of which appear in this Journal. It appears to us that at least some members feel strongly that all avenues must be explored which might enhance the standing of Amateur Radio among those who have our future in their hands. There are quite a few members who adamantly insist that the CW requirement for licensing be maintained. Quite a few feel that it could be eliminated without serious effect on the hobby. Some feel that having or not having the CW requirement is not particularly important. One might conclude that a consensus might never be obtained in the Amateur fraternity but - I don't believe that. Our achilles heel appears to spring from our knowledge that the amateur service has been accepted in the past as a truly public service institution, honorable and essentially self-governing, with a proven track record in developing a store-house of capably trained electronic technicians and communications operators, available in the event of any local or national emergency. As we have recently noted, there are those in the Government service, as well as in industrial areas, who consider us low-priority, non-essential nuisances. Most amateurs have inherent faith in their Government.....a faith that Amateurs will always have their frequencies, and be considered an important part of their communities, serving the public interest. To a few who, in light of recent actions by the Government, see it otherwise, there is real fear that Government Bureaucrats, mostly attorneys, will gradually snip bits and pieces of our spectrum, granting it to wealthy industrial users who can afford to pay whatever the price might be. This may be an unfair assessment but, it is perceived as a serious threat to the amateur service by those who are concerned by recent actions.

Out of the letters received we have reached one exciting thought-amateur radio can enhance its image, not by magic, but by making itself so valuable that an attack on the hobby would simply be unthinkable. And what might this magical scheme be? It's been right in front of us - the answer is to ally ourselves with the educational process for young America. Certainly there would be work, but rewarding work - doing those things which would help to inspire youngsters to wake up to education - to help create interest in learning. Much thought would need to be given on how best we might undertake activities which would associate us with those who teach and educate. One way is spelled out pretty well in the story in this Journal describing the work of Carole Perry, WB2MGP. In this light, amateur radio would have as its first goal not producing copious quantities of licensed amateurs, instead the goal would be to introduce our young people to an exciting avenue of communications

and learning. Think of the impression young people would get, studying about Costa Rica, and at the same time talking to someone who lives there! If in the process we gained new amateurs, great, we know that whatever the effort, getting our license has been worth the effort. Undoubtedly there are other ways which would become apparent once amateurs became actively engaged in helping. Amateur Radio can, with ease, help young people learn geography (what amateur doesn't know the location of Peru, of Saudi Arabia, etc)....learning spelling what amateur on CW doesn't soon learn to spell correctly what amateur can't read and write? Amateur radio can act as a catalyst, bringing excitement to our young people and indirectly the urge to learn. The horizons are unlimited, and the chance to help in one of our Nation's highest priorities - education of our young people. We'd not only provide support to our professional teachers in this important field, we'd help ourselves at the same time. In time, I feel certain, we could truly become such a power in support of the public welfare that no one could ever seriously consider attacking the Amateur Service.

It would require effort and coordination - it would eliminate our dependency on the goodwill of bureaucrats - it may not be the only road but, it is a possible route through which the Amateur Service might stand on its own two feet, and become a truly integral part of the Public Weal.

The thoughts expressed herein are those of the Editor and do not necessarily reflect the opinions of QCWA, its members, Officers or Directors.

TO CONTACT QCWA HEADQUARTERS

BY MAIL, ADDRESS TO:

QCWA, Inc
1409 Cooper Dr, Irving, TX 75061

BY TELEPHONE

214 438 8083

QCWA MEMBERSHIP DUES SCHEDULE Effective 2/15/86

Term of Membership	U S Members	International Members	Family Members
1 Year	\$12.00	-	-
2 Years	\$20.00	-	-
3 Years	\$25.00	\$10.00	\$10.00
Life	\$125.00	\$50.00	\$50.00
LTP*	\$135.00 (3 @ \$45)	\$60.00 (3 @ \$20)	\$60.00 (3 @ \$20)

*If Life Time Pay program is not completed in one year all funds received are used to extend regular membership at the 3-year term rate.

NEW MEMBERS ARE REQUIRED TO PAY A ONE-TIME CHARGE OF \$3 AS AN INITIATION FEE, IN ADDITION TO THE SCHEDULE ABOVE.

MEMBERSHIP FEES MUST BE PAYABLE IN U.S. FUNDS ONLY!

THE MORSE MEN AMONG US

Bob Strack, K6CNB
1345 E Puente St, Covina, CA 91724

I've been a lover of the CW mode since I received my first ticket in the fall of 1957 with the call, KN6CNB. However, while commuting to and from the "salt mine" I did a lot of 2 meter phone. In mentioning 2 meter phone while driving, I should add that there are a few amateurs who are very good at CW while driving. In the nearly 31 years that I have been licensed I can almost count on one hand those that I have worked who had acquired such skills. I take my hat off to them.

At my home station on week-ends and week day mornings I operated CW 95% of the time for the following reasons:

1. No problems with copy of other amateurs around the world who speak english with a very thick accent such as my first cousin who has lived in Fort Worth, Texas for so long that I cannot understand her "english".
2. Being tone deaf, I can adjust the tone of the incoming signal to a frequency at which I hear best.
3. Except during world-wise contests there is no serious competition for band space.
4. In very poor conditions, Morse or RTTY will get through on RF better than SSB will.
5. Amateurs who are proficient with keyboards make very "arm-chair" copy at high speeds.
6. It is a very challenging mode for poor spellers.

For quite some time I have been hearing and reading about how difficult it is to recruit younger people into the hobby. Therefore in the late Fall of last year I decided to make an effort at finding out something about the age of CW operators.

Between the latter part of November, 1987 through the month of February, 1988, I contacted 119 amateurs. Almost all contacts were on the bottom 50 kHz of the 20 through 160 meter bands. I asked them their age and how many years they had been radio amateurs. While yielding some very interesting data, this survey is by no means a representative study of CW operators on a global basis. Due to limited space for towers and large antenna arrays I had no European or South African contacts. Therefore most of the data is from North America and the Pacific area. Also, due to the time of the day (1300 to 1700 and 0300 to 0600Z) it may be that the younger operators were unable to participate in the survey.

As can be seen from the graph, only a very few started the hobby after age 40 (11%). It was a little disheartening to see that the great bulk are age 40 and older. Only six of the total were under age 30. 65% started in amateur radio between age 12 and 22 inclusive. About 70% were in the United States and their arithmetical average age was 61 years. The average age for the Japanese CW operators was only 41. For all of the non-U.S. operator, which of course represented only 30% of the total, it was about 43 years.

It is easy to see that if these trends continue we will find an ever decreasing number of U. S. CW Hams. I would guess that in a very few short years, with technology changing at an exponential rate as is now the case, we will find only about as many CW people on our bands as we had spark operators in the early years of this century. This should be good news for the SSB people because the clamor for more phone band space will become louder and louder.

I chatted briefly with most of the contacts and I had a lengthy (an hour or so) QSO with a few. It was interesting to find that many of those operators enjoy CW for a lot of the same reasons that I do.

There seems to be some truth in regard to difficulties in recruiting people into amateur radio. In an age of live TV programs via satellite and availability of low cost personal computers, it is easy to see why. Most of the mystery and romance is gone from amateur radio today. But, it need not be that way.

If we could create a code-free amateur class, such as maybe and

MORSE MEN Continued

"engineering" class with privileges in the 902 MHz and higher frequency bands, we should be able to attract more of our nation's youths. However, quality does not always go with quantity.

We have a large untapped pool of young people in America today who are knowledgeable in communications and electronics. We need them in our hobby. They can contribute to the over-all technical expertise of the amateur service.

DATA ANALYSIS

Beginning Age	Contacts		Present Age
	Total	%	%
10-19	62	52.1	49.6 yrs
20-29	29	24.4	52.4
30-39	15	12.6	51.2
40-49	4	3.4	57.0
50-59	6	5.0	66.7
60-69	3	2.5	75.0
	119	100.0	54.0*

*Present average age of all contacted

Editors Note: While a small sample, the data should provide a reasonably good statistical sample. The data is random with exception of the time segments at which the contacts were made.

WHITHER AMATEUR RADIO?

Charles F. Krause, N7ESJ
6305 Hawthorne Ln, #1, Myrtle Beach, SC 29577

Reference the opinion expressed on Page 48, Vol 37, No 2, QCWA Journal for the Summer of 1988. . . .

The goal of a million "Hams" by 1992, while laudable, is totally unrealistic and it is neither necessary nor desirable -- unless:

- 1) It is intended as a benefit for the "entrepreneurs" who will sell the most advanced and most costly equipment to those estimated additional 665,000 or more novices who are expected to make up the numerical difference between the present amateur radio population of 435,000 and the 1,000,000 envisioned.

Come, let us reason together.

At an average price of \$3,000 that each NOVICE would pay for equipment, that would represent equipment sales of about \$2 billion (in round figures, of course). Where does the money come from? Would the young people put off their education by a quarter of a year or more in order to pay for amateur equipment? Perhaps the automobile sales people would let them have a new automobile with a delayed payment of the purchase price, say 6 months, before the initial payment must be made? or, as in the case of those NOVICES who are below the age of consent, is it to become mandatory that "papa" or "mama", will pay?

Despite the great technological advances during this last half of the 20th Century, fantasizing about amateur radio in the coming century does not face the realities of our present time. The realities of the 20th Century are quite simple. There is no such thing as a "free lunch". If you want to eat, you must pay for the food and service. If you want to set up an amateur radio station, the equipment must be paid for.

It should be obvious, except to the most wilfully obtuse, that such grandiose goals are impossible, due mainly to the fact that there are very few people who have the inclination toward, or the interest that would be needed, to undertake the studies of electronic theory and International Morse Code, as well as the International and National laws, Rules and Regulations which are necessary to pass the test

WHITHER . . . Continued

required for obtaining an amateur radio operator license.

Unless, of course, as is evident from the photographs in QST, CQ, World Radio and 73 publications, the amateur radio operator of the future will hold only a one-level license -- that of entrance level, where the required knowledge of electronics theory, National and International Laws, Rules and Regulations has been reduced to the absolute minimum necessary for operating a station on voice, and/or, keyboard or digital modes of communication.

Growth of the amateur radio service cannot be attained by dropping the radiotelegraph test requirement. As to the concept of "No Code" license requirement bringing large numbers of NOVICES into the amateur fraternity. Forget it!

If the people seeking entry level licenses won't work to learn code, they cannot be expected to study in order to pass the test requirements on the principles of electronics, laws and rules, National and International.

Your answer to this quandary seems to be "something for nothing". An amateur radio operators license for absolutely no abilities whatsoever. At the present time and with the present amateur population the telephone bands are overcrowded and interference is often excessive. Surely this problem would more than double if the amateur radio population increases by two-fold. In order to alleviate this condition more telephone frequencies will be needed and again, such frequencies will be taken from some other segment of the amateur population. Therefore it has been proposed to eliminate the radiotelegraph band segments and give them to the voice communicators.

God forbid it!

Editors Comment: This letter was edited, since it was extremely long. Every effort has been made to insure the writers major points have been included. The letter written has made a number of inaccurate statements with respect to the article written in the Summer QCWA Journal. Neither QCWA nor the Editor at any time suggested that a "no code license" be adopted. The point of our "No Code" editorial was simply to get a dialogue going among amateurs in an effort to find common ground for "all interests", denying no one a voice in establishing ways and means by which the amateur service might be made more readily available to all. The areas discussed in the letter have been covered in other stories with one exception--the cost of getting on the air. Our editorial suggested that each present day amateur work to bring one new amateur into the service during the next three years. This would by itself double our numbers (excepting Silent Keys, and dropouts). This seemed an attainable goal. If our new recruit is young, so much the better. The estimate of \$3000 to equip a new novice is a bit high. I myself have 5 working transceivers - a TS-520, TS 830, Swan 500, Ten-Tec and FTDX-500. Since I only use the '830, any novice I encourage into the ranks can have his choice of the others, free of charge, and I am certain that many amateurs are in the same position as I in this matter. A young, or old novice can get a good introduction to amateur radio HF bands with tube equipment which these days is a drug on the market. He can graduate to a TS-930 later on when he can afford it. Let there be no question - we are for amateur radio--and personally enjoy CW operation. Changes are in the wind - they will come and, unless we actively work to influence them, we'll get whatever the bureaucrats decide we are entitled to. The pages of the Journal are open to all who would contribute to the dialogue.

The Winter QCWA Journal will feature a report on the 1988 QCWA Convention at McLean, VA. . . There will be the Rules for the QCWA 1989 QSO PARTY. . . The deadline for material for the Winter Journal is November 5, 1988!

TELLERS COMMITTEE REPORT

QCWA 1988 ELECTION

The following tally of votes cast has been prepared by the Tellers Committee:

Votes Cast	Candidate
3461	W1ICP
1026	KA2IXW
1532	W2GHV
1570	W3DM
3006	VE3HC
943	W4PBL
2457	W5MD
3317	W6BDE
3399	W0GFG

A number of QCWA members received from 1 to 3 votes. These have not been indicated herein.

The following is a list of ballots cast by state, province or country, as determined by the postmark on the ballot.

Alabama	22	Oklahoma	52
Alaska	19	Oregon	78
Arizona	57	Pennsylvania	119
Arkansas	146	Rhode Island	15
California	329	South Carolina	36
Colorado	83	South Dakota	19
Connecticut	62	Tennessee	58
Delaware	89	Texas	225
Florida	310	Utah	11
Georgia	47	Vermont	16
Hawaii	27	Virginia	74
Illinois	102	Washington	123
Indiana	54	West Virginia	18
Idaho	20	Wisconsin	72
Iowa	29	Wyoming	6
Kansas	36	D. C.	8
Kentucky	15	FPO/APO	1
Louisiana	70	Austria	1
Maine	37	Bermuda	1
Maryland	59	Brasil	1
Massachusetts	61	Canada	104
Michigan	111	France	1
Minnesota	54	FRG	35
Mississippi	22	Greece	1
Missouri	50	Israel	2
Montana	26	Italy	2
Nebraska	37	Japan	1
Nevada	22	Jordan	1
North Carolina	105	Korea	1
North Dakota	10	Norway	1
New Hampshire	32	Poland	2
New Mexico	51	Puerto Rico	2
New Jersey	156	Saudi Arabia	1
New York	204	Vigin Islands	1
Ohio	192	Venezuela	1
		Zimbabwe	1

Total 4209

Three ballots declared invalid, voted for more than five candidates.

QCWA, Its Officers, Directors and members thank the Tellers Committee for its work in counting the votes, and providing a report of the results of the balloting. The Committee was Chaired by H. C. Knief, W2YTO. Members of the Committee who helped carry out the work were:

Arch Doty, K8CFU	Charles Jobes, WIHVA
Walt Steiges, W1HTL	John Frey, W3ESU
Harry Mills, W4HU	Harold Johnson, W4ZCB

A good job, well done!

ARE WE OVERLOOKING SOMETHING?

Joseph Saugier, K6CD
16820 Avenida Florenca, Poway, CA 92064

Every once in a while one must get their pick in things! I have a few thoughts relative to the "No Code" opinion in the Summer, 1988 QCWA Journal.

The idea of "No Code" is becoming closely associated with the perceived need to increase the number of amateurs. Coupled with that is the seemingly sound idea that we need to placate the youngsters who might more easily become hams and because of their youth, remain active. Perhaps so. I have taught Ham Radio Classes in evening school programs for adults (but with no restriction on young people). Some of the young ones did get tickets and after "working the World" and doing satellite and slow scan TV hamming, some of those just didn't remain active.

It is my impression that the older fellows who got their ticket show a much greater tendency to stay active in Amateur radio.

Let's talk about the senior citizen (65 and over). These people are retired, or will be soon. Retirement counselling dwells on the need of finding things to do and to look into new hobbies, etc. I have never heard amateur radio presented as an interesting option to this group of people.

Now, for the much older - those who are really slowing down, but who still need a window on the world. But alas, the hand shakes, the ear-mind-hand coordination is lacking for progressive code practice - even at the 5 wpm speed. I have taught a fellow in his 80's who had been associated with radio since day one. Somehow, he said, he had "never found time to become a ham although he had always intended to". It was pitiful to see him try code practice. It took two or three semester sessions before he just made it on paper. He couldn't remember the stuff either, so that was out. He made Tech and had a few years of ham radio at last.

Let us consider "No Code" for our seniors only. Many things are for "seniors only" these days, so why not "no Code: exams for the entry level? Of course many seniors can learn to handle code - great for the upgrades!

With the increasing numbers of seniors these days, I feel this pool of "stay with it" people may be more fertile ground from which to get new hams than the youngsters who certainly can learn code very quickly. Seniors may take a little more time to get the laws and theory down but they can learn unfamiliar new things if they are interested. A senior "Elmer: could make radio interesting, I'm sure!

I know this idea has been turned down by the FCC a few years ago, but times change. Perhaps QCWA would be the best champion for such a request and I believe ARRL would be supportive, too.

Editor's Note: Good points here. It should be noted that many who become licensed and then drop out after burning up the air for a year or two, come back into amateur radio, sometimes after 10 - 20 or even 50 years. They have developed an affinity for communication and when time permits, they're back again, stronger than ever. I know, this doesn't always happen, but it does happen!

ONE WATT WOW!

John P. Trent, KL7DG
1700 E Tudor Rd, Anchorage, AL 99507

Why not implement 1 Watt CW, 220 MHz transceivers for Hospital patients to use under International Amateur Regulations to optimize service factor and draw substantial use - interest in this band segment for thousands of patients in hospitals and hospices worldwide?

Honor Vic Clark, W4KFC, who was a staunch supporter of QRP.

Why not focus on 80th anniversary of amateur licensing as a "lift-off" for such a project?

I favor C. W. retention as a licensing requirement.

Editors Note: I can see the value of hospital patients having the means to communicate among themselves but, doubt that a really sick inmate could be taught the code to permit its use in that sort of service. It would probably be more acceptable to have 0.1 watt transceivers using voice for that sort of service. Comments anyone?

THOSE DAYS ARE GONE FOREVER!

Helen M. Douglas, W5LGY
1501 Monroe St, Commerce, TX 75428

For some time several of us have discussed the reasons for declining amateur numbers and came up with two reasons:

1) The ARRL with its QST for the engineers in the hobby. It used to be that there were projects each month that people interested in simple electronics projects could find something to make without having to spend a great deal of time and money to build it. Gone are the days of using salvaged parts.

2) The manufacturers who are continuously making it too expensive for the young ones to finance. Too, when one sees the front panel with its many knobs and switches that reminds one of the pilots cockpit of a 727, they give up right then. Time has proved that we do not need all of these useless additions to transceivers to make contacts. I hear many say, who own new equipment, "I set all of the switches, etc. once and go from band to band with it". Why pay for things you don't use? Why can't sets be made that most of us can buy? My small budget won't let me have a new transceiver. My vision demands that panels be simple enough to be seen easily.

I would like to comment on the QCWA membership directory. In the case of emergency, it is difficult to locate an amateur or member in a given city or state. Why not list the calls by cities? I have helped edit two such directories and have found that they are very helpful.

Editors comment: The advancement in electronics since 1960 has been spectacular, leaving many of us gasping for breath . . . after a lifetime of trying to understand a vacuum tube, came the transistor, the IC, mosfet, etc. Even the names are confusing, but not to the youngsters. The day of the simple transceiver is gone too. They're built to anticipate every need - expensive, yes! Membership directories are produced as they are because most members want them that way. Supplemental directories can be made but when dealing with 10,000 members, even they become expensive.

YOUR HELP IS REALLY NEEDED!

The welfare of QCWA depends greatly upon the calibre of men and women who serve as its officers and directors. Won't you please look about you and attempt to line up candidates for the offices which will be open in the coming 1989 election. If you know a good and qualified member who would serve, contact the Nominating Committee with his or her name and ask them to consider placing them in nomination. All offices are open for the 1989 election!

RESTRUCTURE LICENSING PROCEDURES

Joel Goldberg, W8HIU
6762 Red Cedar Ln, Union Lake, MI 48085

I firmly believe that the time has come for the amateur community to recognize that the need for proficiency in Morse code is past. When radio was young, and many of the sophisticated methods of transmission we now have were not yet developed, code was a necessity. The knowledge of code was paramount to membership in the amateur fraternity.

Some of the major contributions to the field of electronic communications came from the efforts of amateurs in the development of SSB, packet, etc. This group of experimenters were able to design and test their equipment in order to perfect its operation. Many of the amateurs of today are 'test smart'. They are willing to spend the necessary time to study and pass both the theory and code portions of the license. This has elevated them to an elitist position among other amateurs. They certainly should have the recognition earned in this manner.

A major problem with this approach is that many (certainly not all) of the present young group of Extra Class ticket holders are only 'test smart'. This group is unable to properly execute Ohm's law in order to determine the size of resistor required to create a voltage drop in a circuit. They are not able to recognize the basic resistors, capacitors and inductors or other components commonly used in circuits. Many of this group are unable to properly solder two wires together! In addition, this group has very little, if any, concept of the process of repair or troubleshooting equipment.

I would suggest a restructuring of the Amateur licensing classification system. I suggest that a basic license be granted to those who exhibit a knowledge of the rules of operation for Amateur radio stations. This license would have limited operating privileges. Since most of the equipment used by the new operator is commercially built and is type approved, this group could operate on designated frequencies with both power and frequency restrictions. When this person wanted to upgrade, both a code and theory examination path could be available. Persons desiring to follow the code path could test for proficiency in code speed, as high as desired. They would receive recognition in a manner that is similar to the present class structure. Others could elect to follow a technical path, with a similar advancement structure. This plan would provide recognition and opportunities for advancement to anyone interested in Amateur radio communications.

A plan with this type of organization, I feel, would open the door for many additional Amateur radio operators. It would interest a greater number of people. It would offer an avenue of interest to those wishing to do experimental electronic work. It would also provide an avenue of interest to the person desiring only to be an equipment operator.

Under the plan, one could cross over and be involved with both advancement/operational paths, if desired. It could provide the interest in reaching the goal of one-million hams by 1992, if initiated soon.

I hope this concept will elicit input from other Amateurs. I offer it with the idea that change is necessary for the continued growth of our Amateur radio fraternity.

Editors Note: Here is a possible way to accommodate entry licensing, substituting advanced theory in the place of code proficiency. This may not be the way to go but it is a plan. Can it be modified to insure that the Amateur Ranks be enlarged without opening the gates too wide?

HURDLE NEEDED!

Charles T. Zlatkovich, K5PPY
5900 Cary Dr, Austin, TX 78757

The "No Code? Oooh Boy" editorial in the Summer 1988 issue was thought provoking and so multifaceted it is difficult to respond concisely.

Few would argue that ham radio does not need an influx of new members. Many of us (especially QCWA members) are no longer young and, at a minimum, we must be replaced. It seems logical also that as the general population grows, so also segments such as ham radio probably need to increase. However, I fail to understand why ham radio needs the disproportionate growth advocated in the editorial. The 20% growth rate advocated far exceeds the increase in the general populations. Further, if one gets technical, a 20% growth rate would result in doubling of the ham population in 3.8 years, not five years. Much of the increase in general populations now comes from immigration. It is probably fair to say, generally speaking, immigrants do not form the basis of much direct increase in ham population, at least not for a long time to come.

Many ham bands are already crowded if not saturated. Unless technological changes enable more hams to use the same frequencies without undue interference to one another much added growth in the ham population will create chaos. I shudder to think what a doubling in five years would do to the usefulness of some of our bands unless startling technological communications developments occur.

If there is not some meaningful "Hurdle" in the initial licensing requirements, ham radio stands a chance to become as bad as CB radio. However, one can ask whether that hurdle should be a code test. With changes in technology, the advent of packet radio and other developments, perhaps beginning hams need to be more intensely tested on technical subjects rather than on the Morse code. Ham radio, including its entrance requirements needs changes. They should be thought out

carefully. Editorials such as the one the int Summer issue which provoke such thought are part of what our hobby needs.

Editors Note: Our approximate 450,000 amateurs totals about 0.2% of the population of the U. S. Real growth is very small. Can we really expect our elected representatives to give much weight to the desires and/or needs of such a small segment of their constituencies? Significant growth seems to be essential in this age of the political. A really startling growth would emphasize the need to consider the welfare of Amateur Radio!

UP A TREE

In Dallas we are blessed by having Blackie Sherrod, sports writer supreme, and even better story teller. Blackie has a reputation for perspicuity and his veracity is unquestioned! The story below, printed on a day when all seemed lost, revived us - here it is for you!

"Jerry Clower, the declaimer from the Grand Ole Opry, loved coon-hunting as a youngster. His Uncle Jawn, said Jerry was the best tree-climber in Mississippi and maybe even Alabama too. When the hounds treed a coon, Uncle Jawn would shinny up the highest tree and shake the coon out. 'Knock 'em out, Jawn!' fellow hunters would yell in delight.

One dark night, Uncle Jawn climbed a tall sycamore. 'Knock 'em out Jawn!' yelled the hunters. 'Wait a minute' Jawn hollered back. 'Shine that light up here!'

The spotlights showed it wasn't a coon, it was a wildcat, mad and spitting and just about to jump in Jawn's face. There was a fierce tangle and screams and swirling of leaves and Jawn cried out, 'Sumbody shoot this thang!'

'We can't shoot,' yelled the men, 'fraid we'll hit you!'

Then there was another great spasm of noise and threshing around and Jawn's voice again.

'Hell, shoot up here anyways,' he gasped. 'One of us has got to get some relief!'

The story appeared under Blackies by-line July 13, 1988 - in the Dallas Morning News.

AN APOLOGY

In the Summer, 1988 issue of the QCWA Journal Headquarters erroneously listed QCWA member Edward S. Clammer, W3UN as a Silent key. We sincerely regret the error.

A THOUGHTFUL ANALYSIS

Everett S. Brown, K4EF
6710 Highway 329, Crestwood, KY 40014

I love this hobby but I am apprehensive about its future. To sustain itself Amateur Radio must yield a benefit to society. The traditional benefits in years gone by were:

- 1) Contributions to the state of the art
- 2) A pool of trained wireless operators and technicians for national defense emergencies
- 3) Emergency communications
- 4) Contact between overseas service personnel and their families at home.

All of these benefits to society eroded as commercial communications have become very sophisticated, proliferated, inexpensive and highly reliable.

The Amateur has changed also. He now buys a Japanese radio and possesses slight knowledge of its circuitry. Repairs are made in a service center. Commercial antennas, towers and rotors are in widespread use with little experimentation taking place. He perceives that more than enough technical information is contained in the Handbook, which is rarely read. In short, the Amateur is no longer on the cutting edge of technology.

The conventional wisdom is that we need more Amateurs. . . .but whom would this benefit? Not society with the added TVI. Not the FCC with the added load. Not Amateurs already licensed with the added QRM.

In company with the belief that we should swell our ranks comes the rationale that the license exam should be made easier by eliminating the Morse test. This smacks of the same approach that our schools have taken in lowering standards and which has resulted in one of five Americans age 18 to 24 who can't find the U. S. on a world map-code is basic to communications, even in the era of satellites and computers. It is equivalent to History for a Political Science major. It is where our roots sprang from. No comprehensive communications training is complete without it.

I am of the opinion that we have three urgent needs. First - We should improve quality. Second - we should recruit a larger mix of young hams. Third - we need to rethink the reason(s) for our existence based upon our contribution to society. Let me expand upon each of these needs:

Quality -

Two areas need attention. Firstly - we must improve the quality of our transmissions by eliminating bad language and discourtesy. It is no wonder that commercial interests seeking to usurp our

THOUGHTFUL ANALYSIS, Continued

frequencies disparage our use of them. Second - we must seek to improve our technical knowledge through creating greater reward with each upgrade in our incentive licensing system - in cooperation with the FCC

Youths -

My empirical opinion is that the Ham population is aging. We must attract larger numbers of young people into our ranks. The worthwhile Novice training programs fostered by ARRL and implemented largely by Clubs should be supported by all of us and expanded. If we can replace the normal attrition with new youngsters it won't be long before we achieve a healthy age mix

Purpose -

Amateur radio serves a very real function which makes it a potent contributor to society - but which is rarely referred to: i.e., EDUCATION. The Novice training program mentioned above is a good start but we must do much more. Our national organization(s) must establish close working relationships with national educational groups such as NEA. We must develop regional and local dialogue aimed at educators, legislators and businessmen stressing the value of Amateur Radio training. These people read Gallup survey results. How many Hams in the 18-24 age group can't locate the U. S. on the world map?

I went to high school during the depression in the thirties. Each summer vacation I worked at a local radio factory and was paid better than most men with families. . . because I was a Ham and had the knowledge needed. Today our young Hams have knowledge in depth about satellite and computer communications. Let's create an awareness among decision makers of the value of Hams and Amateur Radio.

If we do these things successfully I will lose my apprehension and gain faith in Amateur Radio's future.

OPEN THE GATES - ERGO, CB HEAVEN!

J. George Freeland, W8GSN
140 Potomac Dr, Keyser, WV 26726

NO CODE - GOODBYE AMATEUR RADIO- if you don't believe it, check 3892 MHz. Listen to the language, the bragging about 5 kW of power and no one can bother them. Most of them are ex-CBers, multiply them by the horde that would become hams, and goodbye ham radio. I'm afraid too many would forget to leave CB behind them.

You say we should double our number--

CB HEAVEN, Continued

where are we going to put them. Its difficult enough now to find operating space and many hams are forsaking the lower frequencies for that reason. I wonder if it is commercial interests we should fear or our own clubs, magazines, etc., that are looking for more business. Our legislators aren't ignorant, they know the value of amateur radio in time of emergency. The West Virginia flood of 1985 received national reporting but sadly, some reporters still called us CBers. Publicity in all media, not just our own, will be the best protection we can have along with personal contact with our legislators. This is the feeling of a 50-year + amateur who would hope amateur radio does not become another bunch of CBers.

Editors Note: This is the classic reply given in most cases when a no-code license is discussed. The fears are real and recognize the tragedy that was CB. In so far as where would we put more amateurs - I recall in 1930 when we had 30,000 that the talk was the same - no more room! I don't know of any way to reassure those with this feeling. It might be possible by suitable examinations which would substitute severe technical knowledge requirements in place of Morse code requirements. In any event, there will always be a number of licensees who are uncivilized, code or no code!

JAPANESE "NO CODE" EXPERIENCE

Robert G. Wheaton, W5XW
16015 White Fawn Dr, San Antonio, TX 78255

The W5YI Report (Aug 1, 1988) published statistics on Japanese amateur licensing which need to be examined closely.

The Japan Amateur Radio League (JARL) reports its membership as 143,626. The Government says there were 1,608,128 amateurs as of March 31, 1988.

By License Class (simplified), they were:

1/C	-	12,615
2/C	-	48,224
10W CW	-	89,153
All-band		
no-code	-	1,457,976

While "NO Code" may be good for business (import), anyone who would advocate it as the means by which to greatly expand ARRL membership will need to look elsewhere for statistics to back up his arguments!

Editor's Note: The QCWA "No Code" story was meant to point out the need for large numbers of licensed amateurs. Since most regulations are now written by attorneys whose decisions often appear to be politically oriented, it was thought that "numbers" is the only language they understand. A "large" group is more likely to be heard than a small group.

READING, 'RITING and RADIO

Carole Perry, WB2MGP
PO Box 131646, Staten Island, NY 10313-0006

Children are our most important natural resource. We who are involved in the education process are constantly looking for new ways to stimulate and hold the interest of youngsters in our classrooms. A course that does just that is "Introduction to Amateur Radio." For the past 8 years I have been teaching "Introduction to Amateur Radio" to 6th, 7th and 8th graders at Intermediate School 72 in Staten Island, New York.

Amateur Radio affords me the opportunity of getting every child involved. There's something in this course for everyone. Children of all different backgrounds and abilities can master skills at their own pace. There are virtually no discipline problems; and every youngster leaves my room feeling better about himself.

The premise of this course is to use Amateur Radio to stimulate interest in other areas of the school's curricula. Social studies and geography lessons are enhanced many fold through the use of Amateur Radio. What can compare to a student actually contacting a citizen of a foreign country that he has been studying about? The children are always excited when we're able to contact places they've only read about in a book.

The Children were thrilled to hear Father Mike, EL2BX/9L1 describe his QTH in Sierra Leone, Africa. One child immediately located Sierra Leone on the globe, and another pulled a piece of wool from Staten Island, New York to Sierra Leone, Africa on our big classroom wall map. The human contact was incredible. Father Mike is a missionary who described how lonely it can be in such desolate areas of the world. He told us how Amateur Radio has helped to relieve this loneliness. He's able to reach out to others for help, and to relay messages to his family back home. This gave the children a terrific feel for the value of radio communications.

On June 1, 1988, our good friend Brother Joe, AC1U, contacted us from the Ham Radio Station HV1CN, at Vatican City. It was one of our most exciting contacts as Brother Joe sent personal greetings to the youngsters in my class.

The children also learn about Handi-hams and how the human spirit can persevere over all kinds of adversity. We learn the Braille Alphabet and the children begin to understand that human beings will always find a way to communicate. It's what we're all about.

Eight years ago when I proposed the idea of this program to my Principal, Stanley Katzman, he agreed to let me try it as a pilot program. The only equipment I had was my own 2-meter HT. I began approaching local Ham Radio Clubs to enlist the help of retirees. Even though our radio station has grown considerably, we still rely on our retired Ham friends for help and for enrichment. It's a marvelous experience to watch young people interact with older hams. You know that there's more going on than just the exchange of knowledge.

The course was met with tremendous enthusiasm by the children. I went from a pilot program 8 years ago to today where I'm teaching 10 classes a term (approximately 350 students) of "Introduction to Amateur Radio." I always encourage the children to study their Morse code and theory at home with a parent or a sibling. I have received many letters from parents over the years, thanking me for providing a curriculum that the whole family could get involved with;

both as an activity for studying together, and as a hobby.

Response by parents in the community has been overwhelming. They love the idea of studying with their children and being able to try for the FCC license. Parental support is a key ingredient to having a successful program of this type. Typical of the letters received is this one:

"My special thanks to Mrs. Perry for creating a program that brought my son and me closer together. Studying and being tested together was fun; and we're now both in the fantastic hobby of Ham Radio."

/s/ Mrs. Marilyn Aronson, KA2SXC
Michael Aronson, KA2RNP

The FCC Novice examination is an optional part of my program. The purpose is not to grind out more novices, but rather to expose all children to a fascinating learning experience and to show them what interesting things are going on in the world around them.

I always take some of the children with me to the March of Dimes Walk-A-Thon, or to other community events that are monitored by ham radio operators. They learn first hand about the importance of radio communications, and about the service hams can perform for their community and their country.

The entire community on Staten Island was thrilled to be invited to participate in our attempt to contact Tony England, W0ORE on board the space shuttle Challenger on August 1, 1985. Parents, students and community

members came to the school auditorium that day where many local hams had lent their time and expertise to the effort. We were all thrilled to see astroham Tony England's picture appear on our TV monitor via SSTV equipment. The children and the neighborhood people are still talking about the experience.

Editor's Note: One can only read this story in awe. I urge you to go back and re-read it. Here is an example of a highly motivated and extremely dedicated young Lady working like a beaver, not for amateur radio, but for the future of America, our young people. She has, with imagination, used Amateur Radio as a tool, a tool to inspire and challenge our young people - to motivate them and to open the door to the world around them. No finer use for Amateur Radio could be found, nor is one needed. A tool of the educational process of young America. The successes achieved by Carole can be achieved anywhere a teacher can be found who is willing to step into uncharted waters and to be innovative. There are many such teachers who would welcome the assistance needed to get such a program rolling - this is where QCWA Members could contribute to the welfare of their city, state and Country by sharing their expertise and providing encouragement to teachers willing to undertake a similar program in their area. Carole has packaged her program which is available to teachers everywhere. If you would like more information, call or write Carole at:

Carole Perry, WB2MGP
PO Box 131646
Staten Island, NY 10313-0006
718 983 1416



QCWA Project Reports

QCWA MEMORIAL SCHOLARSHIP FUND DONORS - 1988

Listed below are the donors of gifts made to the QCWA Silent Key Memorial Fund during the year 1988 to date.

The Memorial Fund awarded seven Scholarships of \$700 each in 1988. The total of the Memorial Fund account is 71,483.50, as of August 31, 1988.

Donor(s)	Honoring		
Chapter 55	W9JGT - W9SQT	Chapter 79	W0FGO - NQ0R
Chapter 45	W4AJX - K4JET	Chapter 148	All Silent Keys
Chapter 64	WA5VGP - K5RYS	Herman Kramer	K4JET
	W4GJR - W5DVL	Chapter 14	All Silent Keys
Chapter 126	W1VMD	Chapter 38	W5HGG
Chapter 19	KB0ZL	WINJM, HORSFALL,	
Chapter 77	Chapters SK members	W9PT, W4VQE,	
Chapter 38	W5GYW	W9LKA, KG4L,	
Chapter 21	W8DCW	W4LZV, K1HYL,	
Chapter 152	VE1SH - K4GRM	W4DHN, VE3CDM,	
	N4KB	K4FA, W1GOG,	
John & Mary		W2DV, K4EBP,	
Dack	W7AAK	W0MIA	K4GV
H F & Evelyn		Chapter 38	NX5M
Christianson	W7AAK	Chapter 87	W7OCR
Chapter 87	W7PX	Chapter 79	N7PM
Mary K Anderson	W7AAK	Chapter 27	N7XW
Sidney & Mary		Chapter 45	K4TB
Lyons	W7AAK	Estate W6FFN	All Silent Keys
Kirk & Doris		Chapter 108	All Silent Keys
Young	W7AAK		
The Botany Club	W7AAK		
Chapter 88	W4YXW		
Chapter 119	W4QR		
Chapter 12	W4BB		
Chapter 38	W5OSJ		
Chapter	W5OMP		
Chapter 131	W4JCK		
W7BC, W7JMX			
W7GL	1987 Silent Keys		
W6KHM	K6TV		
W7000	W8NJF		
Chapter 1	W8WGN		
W4FQM, W4WBC,			
K4EC, N4GYJ	Suncoast Silent		
	keys		
Chapter 6	W3PFD		

Total all gifts through August 31, 1988

\$3530.00

A lump sum gift of \$5000 or more entitles one to name a QCWA Scholarship Award in the Name of any person or organization.

Gifts to the Memorial Fund may be made to QCWA, Inc., 1409 Cooper Dr., Irving, TX 75061.

QCWA BUILDING FUND DONORS - 1988

The QCWA Building Fund, established for just a short time, has begun to accumulate funds. A total of \$2950.37 is deposited in the Building Fund Account. Gifts can be made to: QCWA, Inc., 1409 Cooper Drive, Irving, TX 75061.

WA4ZVO	W5KL
W5NC	Chapter 148
K6CNB	K0GRM
Chapter 107	Chapter 32

Total all gifts through August 31, 1988

\$675.00

QCWA SCHOLARSHIP AWARDS

The Foundation For Amateur Radio



Washington, D.C.

REPLY TO
FAR Scholarships
6903 Rhode Island Avenue
College Park, MD 20740
August 10, 1988

Jim Walsh, W7LVN
Secretary, QCWA
156 East 16th
Eugene, OR 97401

Dear Jim:

At this evening's meeting of the Foundation, the trustees accepted the recommendations for twenty-eight awards. The five QCWA Memorial Scholarship winners were,

Annette J. Barnhart, N3DKT - Mt. Pleasant, PA
Douglas M. Benish, N3CXB - Pittston, PA
John G. Eye, N0HWD - Isle, MN
David A. Hart, N7FYT - Bellingham, WA
Patrick W. Jungwirth, W6GL - Visalia, CA

The QCWA Leo Meyerson Family Living Memorial Scholarship was awarded to

Douglas E. Swiatlowski, KA2KMT - Camillus, NY

and the QCWA Robert S. Cresap Memorial Scholarship was awarded to

Diane E. Willemin, KE8DJ - Elyria, OH

Copies of the award letters are attached. The certificates currently in preparation will be sent directly to the President for his signature and delivery or formal presentation to the winners. As in previous years, copies of this letter will be provided to both Ted Heithecker and Esther Given to assist them in meeting their publication deadlines,

Annette Barnhart was one of last year's winners who transferred to Notre Dame after completing three years at Saint Vincent College. This summer she is working as a summer assistant in the transmission planning section of Allegheny Power Systems. She holds a General Class license and her father's call is W3SII. Again her sponsor was Mario Carrera, W3TTN.

Douglas Benish was the winner of another FAR scholarship winner last year. He will be a sophomore studying Electrical Engineering at Pennsylvania State University. His father, mother and two sisters are all licensed amateurs. His QCWA sponsor was Ralph Lechner, W6QYE.

John G. Eye had completed three years of college and is currently majoring in General Science at St. Cloud University. Besides amateur radio he has a variety of hobbies and is well-recommended by his references. His QCWA sponsor was James Stinson, W0MP1.

David A. Hart is a senior studying Electrical Engineering at the University of Washington. He has excellent grades and has been quite active in amateur radio besides participating in several sports. His father and younger brother are both licensed. His QCWA sponsor was Mary Lewis, W7QGP.

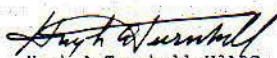
Patrick Jungwirth has already earned Associate Degrees in Math and Engineering and will be studying Electronic Engineering at California Polytechnic State University this Fall. His hobbies include computer programming and general electronics. His QCWA sponsor was Earl Rouse, W6ZZC.

The first Leo Meyerson Family Living Scholarship was awarded to Douglas Swiatlowski who was the winner of a QCWA award last year. He will be in his senior year studying Electrical Engineering at Clarkson University. His sponsor was Dr. James Mozley, W2BCH.

The QCWA Robert S. Cresap award went to Diane E. Willemin. She received her B.S. in EE from Notre Dame (graduating cum laude) and will be working on her Masters in Bio-Medical Engineering at Case Western Reserve University. She has been the recipient of other FAR scholarships in previous years. She comes from an all ham family and was sponsored by Donald Sealy W8QKQ.

The Foundation is pleased to continue cooperating with QCWA in this very worthy endeavor and is anxiously looking forward to next year.

73,


Hugh A. Turnbull, W3ABC
Chairman, Scholarship Committee

QCWA's MEMORIAL SCHOLARSHIP FUND

Once again the Memorial Scholarship Fund has been used to help seven young men and women in the task of paying for their education. The Foundation for Amateur Radio has announced the names of those young people who have been granted Awards. QCWA would like to thank the Foundation for its continued work in this field. It does a very creditable job, and one that provides a single source for radio-oriented scholarships. This makes it much easier for those seeking such Awards to get information about them and to make application for the Awards. Our hat is off to "F A R".

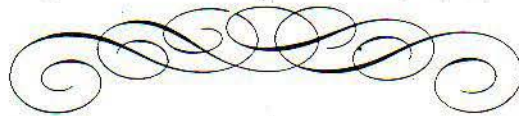
It doesn't take a degree in banking to know that each year financing an education is getting tougher and tougher. In consideration of this, QCWA has a continuing responsibility to work to make its scholarship awards as large as possible. It is not uncommon for the books required for a semester's work to cost into the hundreds of dollars - then there is food, room rent, clothing, medical and all of the other expenses we all enjoy to be met. It takes a pretty brave youngster these days to even set a foot on the path to a degree! The Memorial Scholarship Fund is an investment in our young people - a force that helps to insure that they receive the vital education needed to keep our Country alive and well in the competitive world picture. We can all be proud of what we QCWAers have done but, this is no time to lean back on the shovel handle. The Memorial Fund must continue to grow and provide even greater help and incentive to our young.

We are proud of the Chapters of QCWA who have been working diligently to raise money for the Memorial Fund. Many Chapters now donate to the Fund regularly in memory of their Silent Key Members. There is no finer way to remember our old friends than such a donation - again, risking your impatience with us - an investment in our young people - our Nation's greatest resource!

The Memorial Fund has grown to over 71,000 dollars at the present time. This is now making it possible to award seven scholarships annually of \$700 (only the income from the escrow account is used, the principal remains intact for the future). Let us hope that the Fund can be increased, at least in step with inflation, so that awards of \$1000 can be made.

To those financially able, we urge that you consider a codicil to your will, leaving a gift that will contribute to the welfare of our Nation. Such gifts are certainly gifts of love and caring. To those on limited budgets - your gift of a few dollars is welcome - the greater share of the Fund now existing came from small individual gifts all coming together to make a great contribution!

Remember, there is no finer way to invest than in the future of America - your gift to the Memorial Fund and through it, scholarships investing in our young people speaks very clearly of the character of those who are members of QCWA!



The Pioneers

Every time you record an electrical measurement you use one or more of their names. And the names are truly international: Volta, Italian; Coulomb and Ampere, French; Ohm, German; Oerstad, Dane; Faraday, British; and Henry, American. They were very practical men. They wound their own coils, built their own capacitors, batteries and meters. Over a period from about 1790 to 1850 they laid the foundations for our knowledge of electricity and magnetism, which led to the brilliant theoretical synthesis of the two effects by Maxwell (British) and experimental verification by Hertz (German).

Electrostatic effects had been known for two thousand years. The Greeks observed that when amber was rubbed with fur the amber was able to attract and pick up light objects such as straw. Our word electricity comes from the Greek word "electron" - amber -. As the years went on machines were made to build up the charge without hand rubbing. In the middle eighteenth century there were fairly elaborate wheels to cause the appropriate substances to rub against each other when the wheels were turned by a crank, and fairly powerful charges could be built up and bled off through appropriate terminals.

About the same time the Leyden jar was invented. In its usual form this was a glass jar with metal foil inside and outside and a terminal connected to the inside foil. This is obviously a simple capacitor which could be charged from an electrostatic device. Franklin's kite experiment used a key on the end of his kite line to charge a Leyden jar. But research was inhibited by the lack of a means for generating continuous current.

You've all had experience with static electricity when you walk across a wool rug on a dry day and then touch a doorknob. My own experience in the days of vinyl seat covers was

startling. My wife drove me to work and when I slid out of the seat and kissed her, it was definitely an electric experience.

Demonstrating static electricity was quite a parlor game in the late 1700's. In a famous demonstration 700 monks held hands in a circle connected by a switch to a Leyden jar. When the switch was closed and the capacitor was discharged all 700 jumped and yelled at once.

Constant current electricity derived from the work of Galvani on applying electricity to the nerves of a frog's leg. The story of his experiments is a fascinating one in itself, but the important thing was that it led Volta to the development of the Voltaic pile - the first true electric battery. This consisted of small plates of alternating silver and zinc, separated by brine soaked paper. Finally, and at last, by appropriate numbers and connections of the two metals and the electrolyte, continuous electric current was produced.

The magnetic phenomenon was known from fairly early times. Certain iron ores called "lodestones" probably were magnetised by the earth's magnetic field when molten rock cooled. The magnetic compass was used in China and Europe before Columbus. The science of magnetism was founded by William Gilbert, who was a contemporary of Shakespeare. His tremendous book, concluded among other things that the earth was a huge magnet. Very little serious work was done on magnetism for two hundred years at which time Coulomb invented the torsion balance and was able to show that magnetic and electrical attractive and repulsive forces vary as the inverse square of their separation.

Such was the knowledge about the year 1800 when a Danish professor made a discovery which resulted in the marriage of electricity and magnetism.



ABOUT THE AUTHOR

QCWA Vice President, Hugh Winter, W5HD consented to prepare a series of insights on the men and women who, many years ago began to lay our present-day foundations for scientific thought and investigation. The vignette presented here is the first of the series. Hugh is eminently qualified to write on the subjects associated with communications and electronics. He graduated from the University of Minnesota, B Sc Physics and MBA at the University of Chicago. During WW-II served as Pentagon Staff Officer for Countermeasures. Served at Wright-Patterson Research & Development, countermeasures and reconnaissance equipment. After retirement has provided consulting services.

All About Cholesterol

Cholesterol is a fat-like substance manufactured by the liver and intestines. It is found in all foods of animal origin.

The body gets cholesterol in two ways: the body can make what it needs, and we get it directly from foods of animal origin such as meat, poultry, seafood and dairy products. Egg yolks and organ meats are very high in cholesterol. Although low in total fat, shrimp, lobster and sardines are fairly high in cholesterol and should be eaten in limited quantities.

Foods of plant origin such as fruits, vegetables, grains, cereals, nuts and seeds contain no cholesterol.

Since cholesterol is like fat, it doesn't mix with water, so the only way it can be transported in the blood stream is in fat-protein molecules called lipoproteins.

A low density lipoprotein (LDL), one type of lipoprotein that carries cholesterol through the bloodstream, brings cholesterol to cells. But if cells can't remove it efficiently, LDL gets deposited in the walls of arteries. That forms atherosclerotic plaque, the plaque that clogs arteries and leads to heart disease.

Another lipoprotein, high density lipoprotein (HDL), transports cholesterol from the body's tissues to the liver, where cholesterol can be eliminated from the body. A high level of HDLs may mean a decreased risk of coronary heart disease.

Generally, the HDL cholesterol should be 20 to 25 percent of the total cholesterol number. The higher the HDLs and the lower the LDLs, the lower the risk for heart disease.

Knowing your cholesterol count, however, isn't the only factor in evaluating your risk for heart disease. Risk is affected by factors such as a person's gender (being male is a risk factor); heredity (e.g. a family history of heart disease before age 55); cigarette smoking and hypertension; diabetes; obesity; and low HDL-cholesterol concentration (HDL below 35 mg/dl).

See your doctor for more information on cholesterol and how you can reduce your risk of developing heart disease.

The National Heart, Lung and Blood Institute (NHLBI) has established a procedure for determining whether or not a person is at high risk for heart disease. This analysis takes into account risk factors. NHLBI suggests this step-by-step approach in evaluating heart disease risk by examining cholesterol levels:

1. Total blood cholesterol should be measured and classified (see chart).

Risk Classification of Total Cholesterol

Desirable	Less than 200 mg/dl
Borderline-High	200 - 239 mg/dl
High	240 mg/dl or more

Risk Classification of LDL-Cholesterol

Desirable	Less than 130 mg/dl
Borderline-High	130 - 159 mg/dl
High	160 mg/dl or more

Risk Level of HDL-Cholesterol

Not at Risk	More than 35 mg/dl
At Risk	Less than 35 mg/dl

2. If the first test reveals cholesterol above 200 mg/dl, the test should be repeated. The average of the tests should be used to decide the next step.

3. If your cholesterol level is 240 mg/dl or higher you should have a lipoprotein analysis done. It will measure HDL and LDL. If either one is abnormal, it may mean an increased risk of cardiovascular disease. Generally, the higher the HDLs and the lower the LDLs, the lower your risk for heart disease.

4. Individuals with borderline high cholesterol levels who also have either coronary heart disease or at least two other risk factors should have a lipoprotein analysis.

5. The LDL-cholesterol from the lipoprotein analysis determines what treatment is best to lower cholesterol levels. Patients with either borderline-high risk or high risk LDL-cholesterol should be treated first by a cholesterol lowering diet that is low in saturated fats and cholesterol, then by drugs to reduce LDL levels to below 160 mg/dl.

6. Individuals with LDL-cholesterol of 190 mg/dl or higher and those with LDL-cholesterol 160-189 mg/dl and two other risk factors, are candidates for therapy using such drugs as cholestyramine, nicotinic acid or lovastatin.

"What's your sign" is no longer the question of the day. It's been replaced by "what's your cholesterol count?"

Too much cholesterol in the blood leads to the depositing of layers of plaque that narrow arteries. This slows the blood flow and could lead to a heart attack.

Knowing your cholesterol level gives you the opportunity to do something about it if it's dangerously high. Cholesterol is one of the cardiac risk factors that can change with diet, exercise or medication.

A person's cholesterol number is a measurement of the amount (number of milligrams) of cholesterol in a deciliter of blood. A reading of 210 means a person has 210 milligrams of cholesterol in a deciliter of blood.

The National Heart, Lung and Blood Institute give these recommendations for total cholesterol: Under 100 mg/dl, desirable; 200-239 mg/dl, borderline risk; and greater than or equal to 240 mg/dl, high risk.

To find out your cholesterol level, see your doctor. A simple blood test is all that is necessary to get your reading.

This article appeared in "Discovery" for the Summer of 1988. A publication of Irving Healthcare System. The material was obtained in the May 4, 1988 National Screening sponsored by the Voluntary Hospitals of America. 430 hospitals cooperated in testing 400,000 people for cholesterol and blood pressure. - Editor

A WORD OF CAUTION

As with all matters dealing with your health, information such as presented above is interesting and informative . . . but . . . a doctor does not make you!

Simply reading the material brings out the importance of understanding the "risk" factors.....and you simply cannot judge them yourself. Only a qualified doctor can examine the cholesterol count information and, reviewing your personal habits, health and risks make a recommendation as to medication or treatment, if indicated. Get your cholesterol count and then discuss it with your doctor who can and will give you the only valid advice possible.

WHAT ARE WE DOING TALKING ABOUT HEALTH MATTERS?

This story about one phase of health related matters is the first of what is planned as a series of articles - which will relate to the world in which QCWA Members live. The articles may be about health, about politics, about energy matters, about the environment, about just living, and occasionally about electronics. The justification is that of providing information of interest to all QCWA members - and QCWA members are notorious for being interested in everything!

If you have a story you would like to hear about, write and tell us. If you have a story suitable for this format that you'd enjoy seeing in print, write and tell us. We're here to serve you and QCWA!

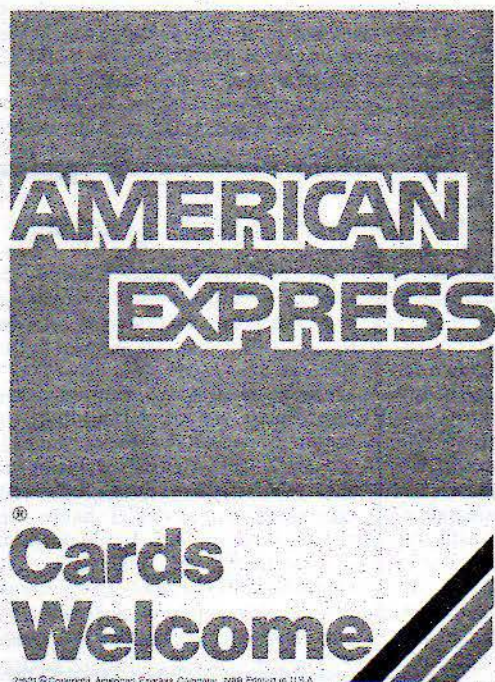
-Editor-

QCWA ADDS SERVICE CONVENIENCE

At its Spring, 1988 meeting, the QCWA Board of Directors authorized a plan which provides alternative means to make payment of QCWA dues, orders for supplies etc. The general manager was requested to establish contact with several credit-card companies to set up the necessary procedures by which members might transfer funds to QCWA, as needed, without sending checks or cash.

Visa - Mastercard and American Express accounts have been provided. You will now be able to use the form provided in this issue of the QCWA Journal to order supplies and/or make dues payments. The only requirements are that you provide the required information listed on the form.

The logo of American Express, shown below, is the only one we have at present. The account with Visa and Mastercard has been signed and approved. At this writing we have not received the needed supplies to initiate the program but we have been advised that they will be on hand here within a few days. Feel free to use this service at any time.



Your records will be kept properly. A copy of the transaction will be sent to you with your membership card, or other material ordered. We would expect to handle all such transactions promptly. It is requested that we hold no charges for more than three days before submitting a statement to the Company for collection.

There is no charge to you for this service other than whatever cost you may have incurred in obtaining your Mastercard, Visa or AMEX card. QCWA will pay a nominal fee for the service which will be offset, in part, by reduced handling costs in the office.

THE QCWA 1989 ELECTIONS

PLEASE GIVE CONSIDERATION TO THE NOMINATION OF CANDIDATES FOR ALL OFFICES OF QCWA IN THE 1989 ELECTION. YOU MAY NOMINATE BY PETITION OR, BY CONTACTING THE 1989 NOMINATING COMMITTEE WITH YOUR CANDIDATES NAME. TIME IS GETTING SHORT. IF YOU HAVE QUESTIONS CALL OR WRITE ANY OFFICER OR HEADQUARTERS.

1988 BOY SCOUT JAMBOREE COMING!

Once again, Jamboree on the Air, sponsored by the World Bureau of Scouting, in Geneva, Switzerland and their amateur station HB9S, will be held on the third full week-end in October. This year it will be the 15 - 16 of October, 1988. K2BSA, the anchor station for the Boy Scouts of America, will be operating from the Dallas-Fort Worth area.

Last year more than 12,000 participation certificates and 4,500 patches were distributed.

QCWA members are urged to get on the air, watch for and make contact with the Scouting stations. No reports are necessary. It is not a contest. Exchanges should be relaxed and relate to Scouting and to amateur radio as much as possible. Brief reports will be appreciated, giving a Scout number, council, amateur call, heard/worked, interesting comments and so on. Photos of your activity, particularly if you have a scout in your shack. This is a chance to get into a truly fine activity. Take advantage of it. If you would like a copy of the official announcement giving times, etc., write HQ, we'll send it to you promptly.

220 - 222 MHZ, DEAD ISSUE ANYWAY

Nate Williams, W9GXR
6915 Prairie Dr, Middleton, WI 53562

I have just received my September QST with the "News Flash" on loss of frequencies between 220-222 MHz! Heck Ted, loss of frequencies on 220 MHz has been an issue since the 50's. How many of us were that active there anyway. What then is the purpose of this letter?

Back in 1956 a young lad passed the General Class License examination administered by the FCC in St Louis, Missouri. By passing this test he was able to operate CW on 3.5 - 4.0 mHz; 7.0 to 7.3 MHz; 14.0 to 14.35 MHz and 21.0 to 21.45 MHz in addition to other frequencies. Then along came "incentive" licensing. This was going to be great in that it was to allow "New" frequencies to be opened to higher class licensees. What was the first set of frequencies "usurped"? This young lad who operated CW the majority of the time "Lost" the bottom 25 kHz of 80, 40, 20 and 15-meters!!! Incentive licensing therefore was to bone up and pass additional tests to Gain Back the frequencies one already had prior to incentive licensing. Talk about goofy encouragement.

Why doesn't the QCWA get with the ARRL and lobby to allow those who were licensed for those frequencies back in the 50s get them grandfathered back? Now that's something I could get excited about.

Incidentally, the Summer issue of the QCWA Journal asks about comments on "no code" licensing. I cannot understand why we all get so uptight on this. Why are we so arrogant to think everyone should have to know CW? I can remember back when W0ZXN gave me the novice class test I told him that once I got my code speed up to 13 wpm, I'd get the General Class ticket then it was gone forever for me. That first year on CW was so much fun that 33 years later I love the mode and operate the majority of the time on CW. But that's what makes our hobby so wonderful--its diversity. We have all sorts of transmission modes, contests, nets, traffic handling, ragchewing, DXing, building, heck, there's something for everybody. Remember back in the days when all the discussions revolved about homebrew equipment VS those who were so low as to use "commercial equipment"?

I still, to this day, feel like my lower 25 kHz were usurped! How can QCWA help me and others gain back what we lost?

Editors Note: This letter brings back memories of the fragmentation in amateur ranks when "Incentive Licensing" came into being. Its nominal reason was to encourage amateurs to improve their technical knowledge and their operational abilities - at a time when those things were fresh in our minds following WW-II, Korea, etc. It is not likely that there will ever be a reversion to the old status quo. I feel for those who were victims - if you can't beat 'em, join 'em!

This is a new section in the Journal, brought about by the need to refresh ourselves in circuit theory. We will be preparing a section each issue dealing with circuit elements, branching out into beginning vector analyses, studies on transmission lines, developing T and Pi matching networks, VSWR, use and understanding Smith Charts, development of directional antennae, Yagi and vertical, and so on. In every case mathematics will be essentially elementary but sufficient to explain the principles with examples worked out in detail so that they may be followed. Likewise, in every case we will attempt to clarify, by analogy or example, the crux of whatever is being discussed. Your thoughts and comments will be appreciated!

CIRCUIT ELEMENTS

Capacitors - A capacitor (condenser) has at least two conducting surfaces separated by a dielectric. (A dielectric is a substance that does not conduct electric current but will permit passage of lines of force of an electrostatic field and can sustain an electric field). When a voltage is applied between surfaces (electrodes), the production of an electrostatic stress field in the dielectric represents stored energy. The amount of stored energy is dependent upon the voltage applied and upon the electrostatic capacitance. Capacitance is measured in Farads, one Farad being such that when 1 volt is applied, a charge of 1 Coulomb will be stored. A charge of one Coulomb is equivalent to a current of one ampere flowing for one second.

A theoretically perfect capacitor when discharged, will give up all of the energy stored. Actually this perfection is never reached and a small amount of energy is lost by leakage in the dielectric or corona discharge. This imperfection does cause a bit of power to be lost when an alternating voltage (AC) is applied to a condenser, since the polarity changes of the AC voltage continually charge and discharge the capacitor with a bit of energy lost in the dielectric on each half-cycle charging period. This loss is a result of the dielectric characteristics and generally independent of the capacitance of the condenser. The dielectric loss establishes the power-factor of the condenser. The power factor is always higher when the condenser is operating at high temperature and higher when the dielectric absorbs moisture.

The losses in the dielectric may be expressed in terms of the angle by which the current flowing in the condenser fails to be 90 degrees out of phase with the voltage applied. This angle is the phase angle of the dielectric and for practical purposes when expressed in radians, is equal to the power factor. That is, a power factor of 0.01 is equal to a phase angle of .01 radians, or 0.57 degrees

Common condensers may have paper, mica, air, vacuum, pressurized gas or chemical dielectrics. Air dielectrics are used for applications requiring low capacitance. Paper dielectric capacitors are used in applications requiring mid-range capacity and where power factor considerations are not restrictive. Mica capacitors are very low-loss, and exhibit high stability. They are expensive. The other common variety of capacitor is the electrolytic. This condenser depends upon the characteristic of aluminum (and other specialized materials) that when placed in the proper solution, will form on the positive electrode, a thin insulating surface film capable of withstanding fairly high voltages and at the same time, having a very high dielectric factor. Electrolytic condensers may have very high capacitance in a very small size. They exhibit a high power factor that is frequency dependent. The power factor changes with age and applied voltage.

Voltage ratings of a capacitor depends upon the dielectric strength of the material used and the losses within the dielectric. If the losses in the dielectric are great, permitting heating, the allowable voltage before breakdown of the dielectric may be less than the dielectric strength of the material. Since the current flowing in a capacitor is proportional

to the frequency and voltage applied, the voltage rating of a capacitor is highest for DC potentials, decreasing significantly as the frequency of the applied potential increases. The typical change in allowable voltage versus frequency change of a mica-dielectric capacitor of .001 uFd are:

Frequency	Rated Voltage
DC	15000
1 kHz	10000
100 kHz	5000
300 kHz	3000
1000 kHz	1750
3000 kHz	600
10000 kHz	175

All of us are aware of the common uses for a capacitor. The ideal capacitor has extremely high resistance to the flow of continue direct current. It likewise has a definite resistance to the flow of alternating current which can be determined from the simple formula for capacitive reactance:

$$X_c = 1/6.28 fC \quad \text{where,}$$

X_c = reactance, ohms

f = frequency, Hz

C = Capacity, Farads.

These values are not convenient for most amateur radio work and the simpler formula:

$$X_c = 159200/f(\text{MHz})(\text{CpF})$$

is sufficiently accurate for all but laboratory work. Most engineers have a convenient value in mind, to help in their work -- a .001 uFd capacitor has a reactance of 159 ohms at 1000 kHz. Since the reactance of a capacitor is inverse, a 2 MHz the value is 79.5 ohms and, at 7,000 kHz, it is 22.7 ohms (159/7). Continuing, a .00025 capacitor would have, at 7 MHz 22.7 x 4 ohms reactance or 90.8 ohms. (the .00025 capacitor has 1/4th the capacity of the .001 and 4 times the reactance)!

Remember, for most amateur applications and many industrial, a capacitor has a very high resistance to a direct current, so high that the resistance value is ordinarily omitted from consideration. The capacitor does, however have a reactance to alternating current. The point being, when speaking of capacitors, speak of their reactance, not their resistance!

A final thought - an uncharged capacitor upon being connected across a power source, accepts a very high current and the voltage across the capacitor is low. As the capacitor becomes charged, the current drops to zero and the voltage rises to equal the power source potential. On a time basis, a large current flows first, followed by a rise in potential. From this, we say the current flowing in a capacitor leads the voltage across the capacitor!

Next issue of the Journal will bring a discussion about inductors!

WRITING TO THE EDITOR

The OPINION pages of the QCWA Journal are open - write to the editor with your thoughts, opinions or just plain gripes. Letters are censored only for profanity and slander. Here is your opportunity to get your thoughts before a large number of amateurs who are active, and willing to listen. Don't pass up a good thing! Like many other wonderful things, if you don't use it, we all may lose it!

ONE MAN'S STORY - FROM THE HEART

L. J. Cassou, W6EKO
1401 E Airport Ave, Lompoc, CA 93436

In answer to your request for comments on the no-code question I don't seem to have an opinion to express but I will tell you my story for what it's worth.

In 1922 when I was 9 years old I saw an ad in a magazine that if I sold an amount of Cuticura Salve, I would receive a crystal set kit that you could hear people talking as far as 25 miles away. I did not know they needed a transmitter, I thought I could hear them talk out on the street. I was enthusiastic, so I sent for the deal. After I put it to together, needless to say, I heard nothing. I read other radio magazines of the times and I found out the sad story. I lived down at the bottom of a canyon at Lake Hughes, California, about 20 miles from Palmdale and Lancaster, but 65 miles from Los Angeles, so my location was bad for receiving. I tried a long time to get a station from L.A., but no luck. The only luck I had was when one of my Grandmothers's chickens squawked, I thought I heard music! One of my relatives started buying me Tom Swift books and when they came up with Tom Swift and his wireless, that did it. About that time I became acquainted with a surveyor who had a big radio with many dials and he helped me build a one-tube set. When it was done, I heard KOA, Denver and KFWO, Catalina Island - I was walking on air! I swept out the schoolhouse for a month and got \$10.00 to buy the precious tube, a hot-shot battery and a 22.5 volt B battery and a cheap set of Brandes headphones. With these I put together a set at my home, the year, 1923.

It wasn't until 1929 in Glendale, California, that I got in touch with a ham. He was W6EGX, now a Silent Key. When I saw his station it was with great interest but he was on CW and that didn't make it with me. I was only interested in voice. My family moved to Montebello, east of Los Angeles about 5 miles and by that time I had built a receiver to hear the 80 meter band. Phone was from 3500 to 3550 with many using modulated oscillators with loop or some with Heising modulation. I got to know Godfrey Burkhardt, W6AXQ, who helped me learn enough to get a license, learning 10 WPM code.

Now, the punch-line: the only time I ever worked CW was one time when my speech amplifier went out. W6KIW had some ideas about making the amplifier better, so I was off of phone for about a week. I worked CW that week, but developed no love for Charley Wiskey.

I don't know if a no-code test is the way to go or not. I know I have valued my privilege as a ham to the extent that I have never been issued a citation - and have resolved any neighbor complaints. I don't believe it was because of the fact that I had to pass the 13 WPM test after the war that did it. The best way I can put it is when a ham I knew in Los Angeles was asked by a lady what he saw so interesting about ham radio, he just put his hand over his heart and said, "its all right in here".

NORTHWEST COMMENT

Bob Starr, W7UE
1060 Fowler St, Raymond, WA 98577

Your editorial "No Code" really raised the hackles on the back of my neck! I DO understand the problems you refer to with the politicians who think in numbers not value. There are many problems afflicting amateur radio today and I will cite what I believe to be the real issues.

First I strongly disagree about the need for increased growth. We could give everyone in the U. S. a license to operate on the ham bands which would be nice if you are looking for growth, but then we would have the CB band all over again. A CB operator with or

without the code test would still be a CB operator. The code test has become "the issue" and has obscured the decline of technical ability, the desire to learn, the ability to do anything beside pick up a microphone and shout CQ DX. We need a stable population of trained people that can BE OF VALUE in time of need. I still remember having to draw the schematic of my '47s before I could get a license. Now, regardless of what you know you can have your license. This not withstanding the assertions that all is legal and above board by the ARRL.

This may sound paranoid and perhaps it is, but I lay most of the problems now facing amateur radio at the doorstep of ARRL who, since the late 1940s has been more interested

QCWA UTAH CHAPTER No 160

Bill Vaughan, W7CKD
PO Box 935, Ivins, UT 84738

Utah Chapter held its first annual dinner meeting on April 22nd in Salt Lake City. Twenty-nine members and guests were in attendance. Newly elected officers were:

G. A. Buchanan, W7UG	President
G. R. Beckham, W7VFM	Vice President

Since Utah Chapter members cover the state, six members traveled as much as 150 to 325 miles, one way to make this meeting.

A special Awards program was featured with many members receiving their QCWA Golden Certificates. Those present receiving Awards, are shown in the picture below:



Above, L-R: Alvino Rey, W6UK; G. A. Buchanan, W7UG;
G. R. Beckham, W7VFM; Max Burggraf, WA7AIA;
Wilber Fahey, K7FY; Clayton Clark, AC7O

A number of members were Awarded Certificates even though they were unable to attend the meeting. Those so honored were: John Forgacs, W2AAS; Don Haskell, W7CL; Ray Larsen, W7NMK; Bryan Madsen, KQ7R; Leon Stanley, W7DKB; Willard Thorell, NV7D and Robert Tomblin, N7JXT.



in publishing QST than in the "art" of radio. They did everything possible to bring about the decline of home built equipment where a person has the opportunity to learn by doing. They stress the latest in gadgets.

The FCC has become so "harmless" that we no longer have to fear the knock on the door by the RI! The guy who can afford it can buy the newest equipment, put up the manufactured dipole, and go on to greater things. Ask some of the new hams with the Extra Class, and you will find that they believe the only way to up an antenna is to buy it in a kit.

Yes, I am CW only, and have been for many years. This morning I was reading the mail on CW, of a feller with an EXTRA class call, who was telling his buddy that he could not copy him because his MODULATION was too low and all he could hear was clicks! What employer today would hire a man who only had a Ham ticket? I remember when that happened and so do you. It is not the quantity OM, it is the quality and ours has gone to Hell!

QCWA CHAPTER NEWS

SCHEDULED ON-THE-AIR MEETINGS REPORTED

1	Cleveland Chapter	Wed	2100L	W8OXA	28/88
2	Chicago Area	1st Thu	2100L		147.15
4	Northwest Chapter	Sun	1630Z	W7PN	3655
		Sun	2000Z	W7FNC	3952
		Sun	2300Z	W7AZI	2952
5	Delaware Valley	Sun	1445Z	W2HX	3917
6	Pittsburgh	Sun	1330Z	W8CSU	63/03
		Sun	1415Z	W8CWY	3880
7	Southern California	Sun	0900L	W6FQ	3917
		Sun	1100L	K6BA	3690
		Sun	1000L	W6ZRZ	146.85
8	Upper Midwest	Sat	0800L	-	3880
9	Dayton/Cincinnati	Sun	1700Z	W8DWT	3987
10	Michigan	Sun	1300Z	W8LA	3903
11	Northern California	Sun	0930L	W6FQA	3907
		Sat	1000L	W6BOW	146.85
14	San Diego	Wed	0400Z	K6QM	145.52
15	Tulsa	Sun	0645L	W5FU	3830
		Sun	0930L	W5FU	7157
16	Arizona	Sun	0800L	W7ER	3890
20	Baltimore	Mon	2400Z	W3EE	146.88
21	Canton, OH	Daily	1400Z	W8CZA	147.42
25	Nebraska	Sat	0830L	W0EUT	3982
27	Houston	Thu	2000L	W5CCD	3866
28	Central New York	Sun	1030L	W2UBU	3917
31	Reading, PA	Mon	0100L		146.91
32	Gator	Sat	0900L	W4OIN	147.37
33	Gunderson-Penn-Jersey	Sun	0100Z		3982
36	Northwest Indiana	Wed	0100Z	W9NGB	145.45
38	San Antonio	Sun	2030L		28640
41	Dallas	Sun	0715L		3835
45	Citrus	Tue	2400Z		147.225
46	Founders'	Sun	1615Z	W2DP	3917
		Thu	0015Z	W2ICW	147.36
48	Treasure Coast	Daily	1500Z		7153
49	Atlanta, GA	Sat	0900L	K4VN	3832
55	Wisconsin	Sun	0830L		3985
58	Colorado	Sun	0900L	W0IJR	3905
		Sun	0930L	W0ERR	146.07
60	East Tennessee	Sun	2200Z		3875
61	Detroit Metro	Sun	0800L	W8IHX	3664
62	Suwannee	Sat	0900L	K4BRC	3940
63	Central Oklahoma	Sun	1400Z	K5DLE	3855
64	El Paso	Sat	0830L	W5BFN	3933
65	Niagara Frontier	Sun	1330L	W2SD	3900
73	Southern Ontario	Sun	0900L		3772
77	Northern New Jersey	Sun	1300L		3917
		Thu	2000L		147.285
79	Sunflower Chapter	Wed	2100L	W0MYM	146.82
	1st & 3rd	Sat	1400L	W0AWP	3610
	2nd & 4th	Sat	1400L	W0MYM	3915
80	Caloosa	Wkly	-		146.52
84	Floral	Mon	0130L	KF4BU	146.28
85	Ark-La-Tex	Mon	0200L		146.76
87	Evergreen	Sun	1400Z	W7CJ	3985
89	Palmetto State	Sat	0900L	W4HDO	3927
		Sun	1700	N4LS	3695
90	Razorback	Sun	1300L	W5MYZ	3907
96	Gateway	Sat	1600Z	W2KGI	3933
102	Dakota	Sun	1400Z	W0HOJ	3890
104	Treasure State	Sat	1700Z		3938
106	German	Mon	1700Z	DL9AR	3663
		Tue	1730Z	DJ2ZB	3555
107	Central Florida	Sat	1400Z	W4LHP	7243
		Thu	1400Z		21380
109	Baton Rouge	Sun	0830L	W5URR	3905
		Sun	2000L	W5URR	146.19
110	Kansas	Sat	0730L		3920
112	Yankee	Sun	0830L		3902
117	Appleseed	Sun	2100L		147.27
118	Coastal Carolinas	Mon	2000L	W4EHF	146.28
120	QC Wireless Women	Tue	1900Z		14295
122	Lake Erie-Tri State	Sun	0930L		3915
123	Lee deForest	Sat	1330Z		3885
125	Halifax Chapter	Tue	1930L	K2HWF	147.15

126	Piedmont	Sun	1400Z		3935
128	Pelican	Sat	1500Z		147.06
130	Inland Empire	Sat	0800L		3862
134	Pine Tree	Sun	1930Z		3942
135	Mid-Michigan	Wed	0100Z		146.40
138	Central New Jersey	Tue	2200Z	W2DME	147.045
140	Wyoming	Sat	0800L	W7MZW	3923
143	North Colorado	Sun	0830L		146.25
146	Twin State	Sun	0830L	W1SVT	3897
149	Nutmeg	Sun	1630Z	AE1H	3923
150	Del-Mar-Va	Sun	1430Z	W3BKN	146.22
151	Wild Rose	Mon	2300Z	VE6EO	7155
152	Royal Palm	Daily	1800Z	W4LZV	3910
157	Pony Express	Sun	1430Z	K0TUH	3955
160	Utah Chapter	Sat	1730Z	W7FVM	7272
162	Southeast Wisconsin	Wed	0300Z		21325
164	Big Bear Lake	Sun	0300Z	K6GCF	147.33

QCWA INTERNATIONAL & REGIONAL NETS

QCWA INTERN'T'L	Sun	2000Z	W6FQ	14347
QCWA CW NET	Wed	2000E	W5QU/W4PI	7035
Florida SSB	Sun	2400Z	W4PI	3955
NE Regional	Sun	0845L	KA2IXW	3917

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MICHIGAN CHAPTER No. 10 of QCWA

Currin L. Skutt, W8FSZ
410 E Holland Lake Dr, Sheridan, WI 48884

On Wednesday, August 10, 1988, 36 members and guests of Chapter 10 gathered at Kenwood Park in Cadillac, Michigan, for the annual summer picnic. The weatherman cooperated, the food was plentiful and delicious and, we ate too much! There were many eyeball QSOs. Doug DeMaw, W1FB, donated two of the books he has written for the ARRL so we had a drawing for door prizes. Also, Doug showed us one of his QRP transceivers!



The picture above shows most all who were present. A wonderful time was had by all!

QCWA CHAPTER NEWS

SOUTHEAST WISCONSIN CHAPTER No. 162

Bob Jensen, W0WLN
5616 Cambridge Ln, # 5, Racine, WI 53406

Our last Chapter member without 2-meter capability finally was able to join the Chapter on-the-air meeting Thursday, July 28 with a borrowed HT. The Chapter now gets together with the Lakeshore Repeater, 147.87/.27 at 9 PM local time each Thursday night. Tony Craig, K9QBJ found the experience enlightening but he had trouble remembering the time limitation and waiting for the courtesy "beep". His first 2-meter repeater experience proved you can still teach an old ham new tricks.

The Chapter meets monthly on the third Monday and is planning for every other meeting to be a social meeting with XYLS/YLs invited. February Valentine party, April anniversary celebration, June show-and-tell, August picnic, October officer installation and December Christmas party should round out a full schedule.

Several Chapter members and wives attended the Wisconsin Chapter 55 summer meeting at Port Washington, Wisconsin, June 4th, thus enjoying the fruits of dual chapter membership.

At this time the Chapter banner ordered in June has not been received. It had been hoped the banner would mark the site of the August picnic.

Our apologies to Chapter member Harry Arsenault, KIPLR, for getting his call wrong in the summer Bulletin and on his name badge! The badge has been corrected and this should take care of the bulletin error.

CENTRAL FLORIDA CHAPTER No. 107

Jim Gundry, W4JM
7908 Forestgreen Dr S, Lakeland, FL 33811

Our Saturday net has been moved from 10 AM to 9 AM as it will enable an earlier start on other weekend activities. Please be sure and check a few kHz either way in case the net operates up or down because of prior use of 7243 kHz. Although it was a summer meeting the August get together totaled 52! Nice to have W4SZ back in the fold since his move back into the area. W4TIC also joined our Chapter at the meeting - nice to have you aboard, Frank.

W4PBL's organization of a bus trip to Opryland enabled many of our members to go on a wonderful vacation to Music City. Nice going Frank! W1PB goes to Extra Class and renews his ticket for another ten years. . . not bad for a guy who has been on since 1928. K4FEI regrettably sells out because of a move to new living quarters. His loss is W4YRK's gain. . . . Ullis has improved his signal with that new L75 linear he bought from Ray. K8RIF put up a beam in Ashtabula, his summer home, and he really packs in a signal on the Wednesday informal net on 14245 (12:30 PM). W4OFT sports a new antenna farm. A twister got his old set-up. W4MCW found out that a ground is important on an antenna system!!

Regular business meeting will start with our September meeting. Same Place, same time (11:30 AM) at the Family Sirloin Steakhouse, 3105 US 98N, Lakeland, the third Saturday of each month. Area QCWA members and wives are welcome!

YOUR BOARD OF DIRECTORS - EDITORS COMMENT

Your present Board of Directors have compiled a formidable record of activity - working for QCWA and Amateur Radio. They represent many and varied interests. As a whole they have served in a way in which we may all take pride. Tell them of your appreciation (their pay scale is very low). Let's hear it for the B of D!

CENTRAL ARKANSAS CHAPTER No. 158

Phil Powledge, W5SVS
PO Box 3171, Little Rock, AR 72203

The annual meeting of QCWA Chapter 158 was held on June 18, 1988, at the Baptist Medical Center, Little Rock, Arkansas.

The election of Officers for 1988-89 was conducted at this meeting. The newly elected officers are:

William N. Kiser, WM5H	President
Arthur L. Iedker, W5CAM	Vice President
J. Phil Powledge, W5SVS	Scty/Treasurer

William C. McClintock, K5SGG	Director
Dale E. Temple, W5RXU	Director

It is with deep regret that we report the passing of Dr. George B. Bean, W5MY. George was first licensed in 1933 as W5DVI. He was a member of the Central Arkansas Radio Emergency Network, the American Radio Relay League and a life member and former President of the Arkansas Osteopathic Medical Association.

QCWA's traveling salesman, Jim Walsh, W7LVN (and candidate for the office of President in 1989) is on the move again. This time to visit Beaver State Chapter.



Above, L--R are: Jim Walsh, W7LVN; Morris Bundy, W7ILE, President of Beaver State Chapter and Fred Dickson, W7LBH, Secretary-Treasurer of Beaver State Chapter.....at a meeting in Albany, Oregon, August 21, 1988! That boy do get around!

MISSOURI CHAPTER No. 19

Melvin Mayo, N0AQH
206 Hillsdale Dr, Ballwin, MO 63011

At the June 11 luncheon and meeting with W0ZFN presiding and ten members present, Elmer Pearson, W0EU was presented the 50-year continuously licensed Award and the Golden Anniversary Award.

Current programs are talks by members on their equipment and activities. Gene Jones, W0QU, said 73 to all last meeting. He is moving to Orlando, Florida where he intends to join the Citrus Chapter.

Meetings are held the 2nd Saturday of each month at Schnucks Station Restaurant in Des Peres, Missouri.

QCWA CHAPTER NEWS

SILENT KEY MEMBERS

Chandler, Everett	K1AQE 17893 88	Daigre, Samuel G	W5ACY 12475 88
Crosby, Chester A	W1BNW 10441 88	Wilson, Harry C	W5BGC 7378 88
Dean, Donald R	W1BYK 15633 88	Budd, Norman A Jr	W5EZX 13519 88
Downs, George L	W1CT 3039* 88	Reed, Robert Deh	W5KY 2837 88
Goodnow, Arthur C	W1DM 1854* 88	Serrill, Jay O	K5MGY 18081 88
Ferris, Howard H	W1HZ 3016 88		
Lang, Stanley W	W1IW 1107 88	Erwin, Ernest	W6KQY 8800 88
Parker, Clifton G	W1KJG 1824 88	Gelbke, Arthur W	K6RJ 3312* 88
De Neuf, D K	W1SPM 9051 88	Rouse, Earl D	W6ZZC 7955 88
Gallagher, Irving J	W2CRW 15701 88	Hanowell, Walter S	W7ANK 12329 88
Wartenberg, Stanley	W2ET 1302* 88	Van Houten, Ed M	W7JC 1420 88
House, Robert C	W2JPE 8605 88	Rood, Howard C	W7KZL 2634 88
		Milligan, Pat	N7PM 19883 88
Dillard, Everett L	W3BKO 7382 88	Paullin, Charlie B	W8CXW 5855 85
Flavin, Lawrence P	W3CV 13598 88	Merry, Ellis B	W8KI 14844 88
Wadden, John R	W3MHH 1493188	Hacker, George	W8LPS 15878 88
Moore, George	W3PFD 6181 88	Morgan, Henry L Sr	W8NLW 13196 87
Germann, William H	W3SS 1551* 88	Jonard, Howard A	W8NZS 5833* 88
		Stecker, Ken E	W8SS 2738 88
Peterson, C Ivan	W4EOD 17235 88	Zetler, Philip A	W8ZK 8086 88
Stibbs, Leroy G	K4FRG 8563 88		
Carpenter, Wayne Duke	W4JMU 9147* 88		
Stuewe, Esther E	K4JNC 7735 87		
Buchanan, Orrin R	W4OG 6105 88	Fisher, Stanley D	W9EQ 7065 88

* Life Member

DEL-MAR-VA CHAPTER No. 150 of QCWA

George Williams, W3PVO
703 Marshall St, Milford, DE 19963

On June 15, 1988, Chapter 150 held a picnic at the home of W3BY, Bill and Doris Kuning, on the Choptank River, outside of Cambridge, Maryland. The following persons were present:

Ed & Bertie, W3FEG; Lloyd & Elinore, W3CDY; Allen and friend, Mary Jane Miller, W3DOG; Lloyd & Betty Jo, W3UWO; Tom &

Bertha and grandson, JJ, W3LOV; Walt & Buddy, W3WPY; Art & Kitty, W2JTH; Jack & Frances, W3FKT; Bill, W3BKN and George, W3PVO.

There was an abundance of food, and everyone reported having a good time. It was especially interesting to see Bill's collection of antique radio equipment. Hope the picnic will be an annual affair.

YANKEE CHAPTER No. 112 of QCWA

Onie Woodward, W1ZEN
14 Emmett St, Marlboro, MA 01752

Yankee Chapter had a very successful picnic in July, at York Beach, Maine. The weather had been raining most of the week, but it stopped Friday night and Saturday was a beautiful sunny day (a Yankee Chapter Day) and then on Sunday it began to rain once again! There were 20 members and guests attending with each family bringing a dish for the table. Lots of Goodies! Our next meeting will be October 1st, at the ARRL Convention in Boxborough, Mass - hope to see many of you there. This will be not just a Yankee chapter meeting but a QCWA meeting with all QCWA members invited to attend. This meeting will follow the QCWA Convention at McLean, Virginia and QCWA Secretary, Jim Walsh, W7LVN, and Wes Randles, W4COW, will be attending and will be glad to visit with you, answering questions that you may have.

HOOVER DAM CHAPTER No. 44 of QCWA

L. M. Norman, W7BPV
303 Sioux Ct, Boulder City, NV 89005

The Hoover Dam Chapter semi-monthly luncheon/meeting was held August 6. The following were elected to serve: Kay Dixon, K7AXT, President; Oscar Heinlein, W7BIF, Vice President; L. M. Norman, W7BPV, Scty/Treasurer. The regular election of 1989 officers will be held at the October meeting.

The Chapters new banner was displayed for all to see.

GERMAN CHAPTER No. 106

Gerd Jacoby, DL3ME
Widdersberger Str 40, D-8138 Andechs, Federal Republic of Germany



The annual meeting of Chapter the German Chapter 106 took place May 13 to 15, at the well known picturesque town of Heidelberg. About 70 members and XYLS attended and had a wonderful time. Visits of the Heidelberg Castle (in background of picture at left) and a boat cruise on the River Neckar were the main attractions.

The next meeting was held at Friedrichshafen on occasion of the Ham Radio Exhibition. QCWA and OOTC had booths and more than 100 visitors from Germany, even one ham from the Eastern side, from France, Switzerland, Austria, the UK, Sweden and From the US, a member from New York and one from California. Some new friendships came out of this meeting!

Later this year will come the DNAT (Dutch German Border Meeting), at Bad Bentheim, at the end of August and in October, Interradio, another hamvention at Hannover.

Gene, N7EIF, from Corvallis, OR, paid a visit to the home of DL3ME on July 4, after a difficult navigational problem via Zugspitz repeater on 2 meters!

QCWA CHAPTER NEWS

WISCONSIN CHAPTER No. 55

Lester A. Peterson, W9YCV
9741 W Howard Ave, Greenfield, WI 53228

The Spring Chapter meeting was held June 4th at the Smith Brother Fish Shanty in Port Washington. About 125 members, spouses and guests enjoyed the buffet luncheon and famous lemon meringue pie. Chairman John, W9FZC, presided, opening the meeting with a moment of silence honoring our recent Silent Key Members: Bill Thompson, K9JGT; Charlie Newell, W9SQJ; Stan Fisher, W9EQ. Encouragement was sent to Jane Stevens, (wife of Joe, W9GAH) and Jean Staats (wife of Larry, WA9CNA).

A special Award was made to John La Blonde, W9FZC and his wife Ethel. A framed certificate was given in recognition of their 50th wedding anniversary. An official welcome was extended to the following new members:

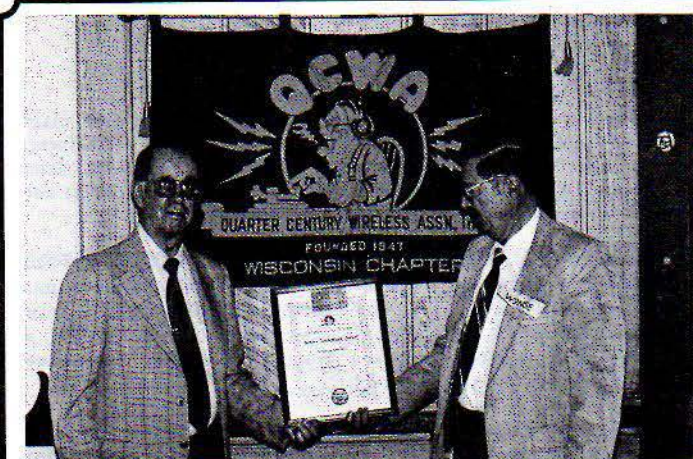
John Hargraves, W9MFS	Robert Shefke, W9FFC
Harry Peliska, NW9X	Joseph Binder, W9VLH
Harry Herres, WA9DYL	Carol Kernats, NS9L
Raymond Sunderland, K9ANV	George Blair, K9VGE
Michael Ortlieb, KN9P	

A Golden Anniversary Award was presented to Clarence Graff, W9NSE. Those members who brought guests were asked to introduce them. The guests present were:

Ed Kelly, W9HPW, and wife Gerri, from the Chicago Chapter; Gloria Hofmann, W9JPU; Al Chouinard, W9NNU; Forest Knaack, W9ZWV.

The Chairman introduced Fred Laun, K3ZO, from the Washington, DC area, and called upon him for a few comments. Fred introduced his wife, Somporn, who is also his QSL manager. He related how he happened to attend the Chapter meeting and told us that we could expect to hear him from Thailand during their annual visits to that country, now that it will be permitting amateur operation.

Vice Chairman, Fergie, W9IEM, conducted the business meeting at which time committees for audit and nomination of officers were appointed. It was decided that the annual Fall meeting would be held on October 1, at Waupaca. Fergie, W9IEM and Charlie, W9CUW, are the co-chairmen. Present plans are to hold the spring, 1989 meeting at Wisconsin Rapids. Travis reported on the QCWA Board meeting. He is on the Committee considering the matter of FCC Rules revision. Ray Bade, W9NJH, Chapter Historian, is looking for pictures of members, their spouses and of their stations to be put into the album which he brings to the meetings for all to see.



In the picture above, Chairman La Londe, W9FZC presents the Golden Anniversary award to Clarence Graff, W9NSE

NUTMEG CHAPTER No. 149

Joseph Moskey, W1JMY
49 Fairwood Farms Dr, W Hartford, CT 06107

The second quarterly 1988 meeting of the Nutmeg Chapter was held May 14, 1988, at Septembers Restaurant, New Haven, CT. There were 53 members and guests present.

The meeting was called to order by outgoing President George Spamer, W1DPR, and after the usual committee reports the election of officers for the year 1988 was held. Those elected were:

Cal Bennett, W1KHL	- President
Fred Heffner, W1CKV	- Vice President
Joseph Moskey, W1JMY	- Scty/Treasurer
Gladys Chase, W1VPF	- Activities Manager
Ken Lappe, KA1SJ	- Net Manager

W1DPR then turned the meeting over to Cal, W1KHL, who accepted the task and promised to serve the chapter to the best of his ability. Cal presented George with a plaque inscribed with thanks for his support as Charter Member, Vice President (1984-86), and President (1986-88).

The traditional glassware raffle was held and the meeting was then adjourned. Following the meeting, an informative talk on the subject of pipe organs was given by our new Vice President, W1CKV, complete with a "live" sound demonstration using selected organ components.



Above, officers elected, L-R are:
W1CKV, W1KHL, W1JMY, W1VPF, KA1SJ

SAN ANTONIO, TEXAS CHAPTER No. 38

Byron A. Mapes, W5CQH
1947 Encino Belle, San Antonio, TX 78259

San Antonio Chapter reports that a joint picnic is to be held in September, bringing together the Austin, Houston and San Antonio Chapters. The meeting is scheduled for Schulenberg, midway between San Antonio and Houston.

Roy Albright, N5RA (W5EYB), ARRL Director of the West Gulf Division for many years, recently suffered a heart attack. Roy was in ICU for several days, but recovering nicely and is now home resting up to take up his regular duties. Cards to Roy would be welcome - his address is 107 Rosemary, San Antonio, TX 78209.

QCWA CHAPTER NEWS

NORTHERN NEW JERSEY No. 77

Carl Felt, N2XJ
8 Charles Pl, Chatham, NJ 07928

Chapter 77's spring field trip took 15 members to the Public Service Electric & Gas and Jersey Central Power & Light pumped storage generating facility near Blairstown, NJ. This site is a bucolic setting high in the Kittatinny mountains just a stone's throw from the Delaware river. The weather, as usual, did not cooperate with our field trip schedule. It rained, but not too hard, and did not detract from our enjoyment of visiting the facility which is used as a temporary storage of energy which can be tapped when the electric utilities face high demand. Energy is stored by pumping water from a low reservoir to a high reservoir during periods of low demand, such as the wee hours of the morning. When the demand is high, as on a hot summer day, electricity is generated and supplied to the power grid. This unique set-up can supply up to 300 megawatts!

Al Helfrick, K2BLA, our 1st Vice President, furnished a delicious picnic of deli sandwiches, salads and soft drinks which we enjoyed at the nearby Boy Scout Camp.

The Chapter's summer picnic was held on Saturday, July 9, at the QTH of Merle Worster, W2HTW, in Upper Saddle River. Again, Merle and Lynn Worster's hospitality was outstanding and the 40 members and friends who attended really enjoyed themselves. Merle's hand as a Kielbasa chef had lost none of its skill. Boy, did it taste GOOD!! Many of the OMs toured W2HTW's shack and craned their necks upward in admiration of his antenna farm. Many of the YLs and XYLs also joined in an inspection of Merle's excellent garden patch and greenhouse where he starts his plants from seeds.

Isolde Byrne, W2TP's sister, won the 50/50 for the QCWA Memorial Scholarship Fund and, again contributed her winnings to the Fund. Thanks, Isolde, for your generosity!

Weather was hot and humid but no rain for the second year in a row! Now, if we can get the weatherman to cooperate on the Spring Field trip!

COASTAL CAROLINAS CHAPTER No. 118

Roger Moates, W3EZR
3300 Barnsley Ln, Raleigh, NC 27604

During the summer meeting in Kinston, NC, the Coastal Carolinas Chapter re-elected the current slate of officers to serve of an additional one-year term. The following will be serving:

William C. Finch, W4EHF, President
Robert C. OBrien, W4YMI, Vice President
Roger Moates, W3EZR, Scty/Treasurer

It is with deep sorry that we report the passing of Lola Hodges, XYL of our Chapter's

oldest member, W4JG. Lola has been a dear friend of all in the Chapter and will be greatly missed.

The blazing summer heat here in the Carolinas has taken its toll on many of our activities, including our Chapter net. All are encouraged to stop by some Monday evening, 2000L on 146.28.

Our newsletter editor, AA4L, has relocated in Calabash, NC after his retirement, and has now resumed full participation in Chapter activities, including his appearance as guest speaker at our last business meeting.

CHATTANOOGA CHAPTER No. 115

Charles E. Curle, AD4F
8719 Snow Hill Rd, Ooltewah, TN 37363-9628

The spring meeting of Chattanooga Chapter #115, was held the evening of June 28, 1988, at a local restaurant. President Clyde, K4KTC, opened the meeting with a few well chosen comments, then Secretary, Charlie, AD4F, read the minutes of the last meeting. Norris, W5LVC, gave the report of the treasury. Balance at the beginning of the meeting \$0.00, took in \$16.00, \$8.00 for the Chapter and \$8 for the Memorial Fund. A discussion was held about the increased postal rate and how it affected the treasurer with the result that Bill, N4BMR, made a motion to raise the local dues to \$65 yearly, beginning in 1989. The motion passed. Lee, K4IN, then made a motion that the 1988 dues be made-up by adding \$3 to the dues. The motion passed, and the treasurer got writers cramps recording the added dues payments.

At the close of the business session, Clyde introduced Charlie Ann, WG4G who had planned to introduce the speaker of the day. A problem had developed and so Charlie Ann introduced a 22 minute video on Australia which was very interesting.

Chattanooga Chapter suggests that you check your local Library for Video cassette programs that might be available. Some of them are wonderful!

TIDEWATER VIRGINIA CHAPTER No. 119

Jim Wise, W4PRO
15 Willow Rd, Hampton, VA 23664

Chapter 119 plans a recruiting session at the Roanoke Division Hamfest and Computer show in September, 1988.

At our last meeting we discussed the possibility of changing the Chapter name to honor the memory of its founders, B. J. Bailey, W4LMB and H. H. Robinson, W4QR. The issue has not been resolved, but may be brought to a vote at the hamfest meeting in September.

GATOR CHAPTER No. 32 of QCWA

Eli Nannis, K4JMH
14996 Imperial Point Dr N, Largo, FL 34644

Our chapter continues to meet each month. Since many of our members are up north, all meetings are informal until October. Many other chapters in Florida do the same. Both Eli, K4JMH and Paul, W1DLP had their 50th wedding anniversary in the month of July.

We are sorry to report two silent keys. Julian Oberg, K4AUA and Roy Stibbs, K4FRG. Jim Clarke, N4BQC, received a 60 year Certificate. Our Chapter donated \$100 to the QCWA Building Fund. We believe that our national organization with more than 10,000 members should have their own headquarters not in someone's home. We hope that other chapters will do the same. We are very proud to have the queen of the traffic world in our chapter. She is Mae Burke, W3CUL. She has handled over 500,000 messages since 1960 and over two million messages since 1946. Can anybody top that? Mae's OM, Al, W3VR does his own share of the traffic handling on RTTY, packet and CW. They really work as a team. They have received countless awards and letters of commendation from all branches of the military for traffic they have handled for overseas servicemen. Our chapter is honored to have such two fine traffic handlers.

CONGRATULATIONS TO K9AA

Ero Erickson, KA9DYS

I had the pleasure of attending QCWA Chapter 55's meeting, May 23, at Port Washington, WI.....and of having a long visit with Al Krones, K9AA. Al, who was named after his father's two-masted lumber schooner "Aldridge" which plied the lakes early in this century, retired as CW operator from WPDK, of the Milwaukee Police Department years ago. I used to work him on police CW regularly for over 25 years via the Police Interzone radio-telegraph net.

As years wore by, Al (then W9UIT) was asked, "Al, when u gg to retire?" The answer always was, "Wen I croak." Fortunately it never happened that way, so when Krones considered that he'd get half pay if he stayed home and hammed, he resigned.

What really clinched it was the installation of an automatic door opener at Vliet Street, where the station was located. It had one problem. When Krones keyed the Wilcox CW rig on 7480 kc/s, the large door would fly open or come down. To solve the problem before squad cars would be damaged, the captain ordered the transmitter turned off.

Having stayed to the last dot, Al retired and now years later, happily he is very much around. Congrats OM!

QCWA CHAPTER NEWS

WEST VIRGINIA CHAPTER No. 30

James E. McEwuen, W8GUL
1114 Harvatis St, Morgantown, WV 26505

Our spring meeting was held on Saturday, May 21 at our regular meeting place (Western Sizzlin' Steakhouse at Gassaway). There were 26 members, their spouses and guests present. President Bill Godwin, K8TPF, noted that it was near election time and appointed a nominating committee consisting of Sam Moore, W8NCD; Jim Ford, W8QR; and Red Devores, W8LYV to present candidates before the next meeting scheduled September 24.

A special meeting was held during the WV State Convention on July 3 at Jackson's Mill. We were honored by the presence of many out of state members including Don Search, W3AZD of Hartford, CT and, Phil Wicker, W4ACY, ARRL Assistant Director, Roanoke Division, of Greensboro, NC. Phil told of the organization in his area of North Carolina and the fact that they rotate their meetings and have a radio net each Sunday.

The Secretary communicated a request by Bill Hallam, W8LD and Lyle Bates, W8BOK, to change the meeting place for the fall meeting to Weston. Much discussion followed and it was finally voted to leave it where it is because of its central location in the state.

Don Search called our attention to the QCWA National Convention being held near Washington, DC on September 23-25 which conflicts with the date of our regular fall meeting. There was discussion about moving the date back or ahead. In order to avoid all conflicts it was decided to have the Fall meeting on October 15, 1988. So, we are looking forward to our fall meeting on October 15 at our regular meeting place in Gassaway. There will be an election of Officers.



PELICAN CHAPTER No. 128 of QCWA

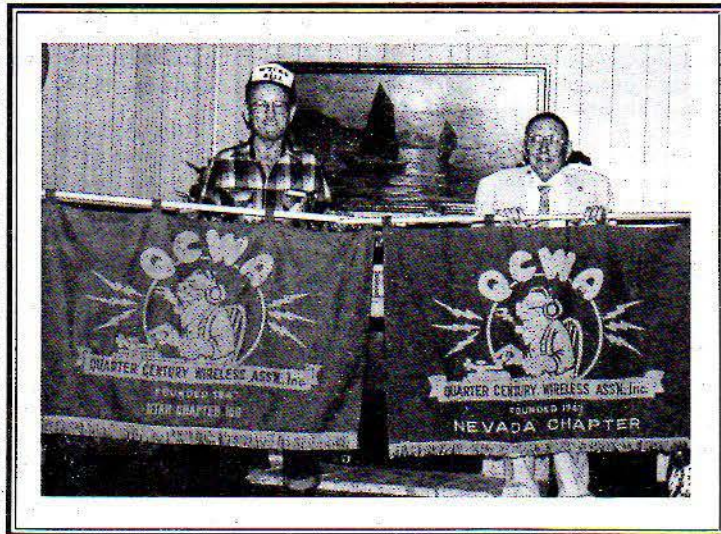
Don Bice, W4PCO
5511 18th Ave N, St Petersburg, FL 33710

A busy spring and summer season was enjoyed by the old birds of South Florida. Regular monthly meetings, breakfasts and weekly networks were held, and well attended. The annual luncheon Cruise Meeting was a "bounding" success, with Commodore Phil Stern, WA4ZVO at the helm a new attendance record was set! Cress Donbar, K4YL and Corby Pratt, K4WV hosted a gaggle of Pelicans for breakfast "south of the border" in Ellenton, FL in July. One sad note of summer was the passing of Roy Stibbs, K4FRG, who became a Silent Key after a long illness.

Like most QCWA Chapters, the Pelicans are fortunate in having a membership which includes so many Hams who have remained involved in the radio community, and are still at it. Two of these were recently recognized for their participation. Described as "The Man who Put Boys Ranch 'On the Air'", Pelican member Dave Stocky, K4KE, was the subject of a picture story in the Rancher Magazine. It related Dave's founding and 20 years of service to the Boys Ranch

QCWA CHAPTER No. 44 and CHAPTER No. 160

Bill Vaughan, W7CKD, sent this picture - not too often two State Chapters get a chance to join hands. Shown below, Bill, W7CKD, of Chapter 160, at left with Leonard Norman, W7PBV, of Chapter 44, at the right.



EL PASO CHAPTER No 64 of QCWA

Pollard Rodgers, K5TLU
801 Galloway Dr, El Paso, TX 79902

In the Spring 1988 issue of the QCWA Journal, the Sailfish Chapter No. 82, at Port St Lucia, Florida, presented a very impressive list of 14 member with a total of 773 years as licensed hams. We congratulate the Sailfish Chapter on their high "total years" and hope that other Chapters will report a list of 14 of their members with the highest total number of years as licensed hams. The El Paso Chapter lists the following 14 members with a total of 858 years as licensed hams.

Gerald J. McTernan, W5YV	71	B. H. Burdick, W5BQU	57
Harold A. Johnson, W5RX	71	Jack Harkins, W5CPI	56
Noel Olmstead, W5URT	67	Andrew P. Pflug, W5VTA	56
Frank Goss, Jr, W5YXD	66	Owen Lehr, W5VYB	55
Howard Brokate, W5RO	65	Walter Liggett, W5BFN	55
Walter Palmer, W5KWH	65	Taft Nicholson, W5ANB	55
Tom Banks, W5HJ	61	Lela Wilson, W5HPO	55

The Charter Members of El Paso Chapter were recently honored at a banquet celebrating the 15th anniversary of the founding of the Chapter.

Amateur Radio Club, WB4PHT. And in the May, 1988 QST, you will find an excellent article entitled "Pictures by Packet" written by another Pelican member, Corby Pratt, K4WV. Corby, along with Virgil Yarbrough, K4IEK, presents a well written treatise on what has become a popular mode in Ham Radio. A big FB to both Dave and Corby.

President Jay Strom, K9BSL, invites all QCWA members to join the Pelicans for lunch and good fellowship at the Econo-lodge Motel, 5005 34th St N, on the third Wednesday of the month. And if the timing does not suit your schedule, how about joining Jay and the gang for Breakfast at Buddy's on the first Wednesday at 8 AM? Buddy's Restaurant is at the corner of Fifth Avenue N and 34th Street, in St Petersburg. Either time and place, come on in, and enjoy the fun.

If you are just passing through the area, and it is Saturday AM at 10, switch your 2-meter rig to 147.06/66 and check into the Pelican Chapter's Net. Every Saturday between 15 and 25 friends are there waiting to meet you. Dutch Romig, KF4DI, network manager will be delighted to greet you.

QCWA CHAPTER NEWS

QCWA MEMBER HONORED

Paul L. Stumpf, W3AQN, was honored by a special ceremony on July 10, 1988, when Pastor Bowersox, of the Bethlehem United Methodist Church of Dallastown officially presented Awards from the American Radio Relay League and the Quarter Century Wireless Association commemorating his 60 years as a Licensed Amateur radioman.

Paul received his call W3AQN in 1928, holding it continuously since that time. He celebrated 60 years as a member of the ARRL. Paul was the first President of the York Amateur Radio Club, serving in 1932. He is an active member of the Bethlehem United Methodist Church, President of the Men's Bible Class, and is active in Boy Scout Troop No. 40. Paul is active in Emergency Communications and Emergency Management of York County. He actively handles traffic and is ORS, OES.



PINE TREE CHAPTER No. 134 of QCWA

Philip M. Young, W1JTH
47 Longwood Ave, Augusta, ME 04330

The June luncheon meeting of Pine Tree Chapter was held at the Montsweag Restaurant in Woolwich, ME on June 11, with 42 members and guests attending. The June meeting is always special since it brings together many of our members who have returned home after wintering in Florida.

After a brief business meeting, "Past President" Certificates were awarded by President Bernie Langley, W1EZR, to Jim Painter, AE1W and to Carl Watson, W1NV.

Wes Randles, W4COW, presented Fred Coats, K4LC, with a Century Club Certificate; also a 55 year Golden Anniversary endorsement. Fred and his wife Milli have been visiting in the Bath, Maine area for a few weeks. Wes then spoke to us about the need for a national headquarters building and the process by which funds for the project can be raised. Wes and Blanche are members of Pine Tree Chapter and it is always a pleasure to have them with us.

Following the presentations, a program was provided by our Vice President, Charlie Stenger, W1HTG. Charlie is Range Officer for the Wilton Fish & Game Association. He gave a very informative talk and demonstration on the safe handling of firearms.

At the spring meeting in March, awards were presented as follows: Golden Anniversary with 55 Year Endorsement to W1GKJ; Golden Anniversary with 55 Year Endorsement to W1FUZ; Golden Anniversary and 50 Years Continuously Licensed Certificates to W1NV. Members not present but receiving certificates by mail were: Golden Anniversary Award with 55 Year Endorsement to ND1D; Golden Anniversary Award to W1ISO; 55 Year Endorsement to W1HJP; 60 Year Endorsement to W1IQ.



Pictured above, at left, Pastor Ronald Bowersox with the ARRL Award and, Paul Stumpf, W3AQN at right, with the QCWA Golden Certificate.

Congratulations go to Paul for his many contributions to Amateur radio and to the welfare of those who live around him.

CHAPTER No. 106

At Friedrichshafen, Ham Radio, 1988

Gerhard, Jacoby, DL3ME
Widdersberger Str 40, D-8138 Andechs, FRG

June 16 - 19 saw the German Chapter attending the big hamvention and manning a hospitality booth. More than 15,000 paying guests attended with more than 100 QCWA members visiting the booth, with nearly 1000 stopping by asking questions about QCWA. One third of the visitors came from abroad - from: G, EA, HB, OE, HA, Y22, I, SM, OZ, LX, ON, F, PA and USA! Beside some European QCWA members, we had W2TO and W6HX visiting with us.

At the informal meeting 27 QCWA members heard Gerd, DL3ME discussing QCWA matters. A Meritorious Award was given Klaus, DL7JK, for his outstanding services to the Foederverein Amateurfunk Museum at Graefing. Klaus was the successor to Hans Schliebenbaum, DL1YA and has done a wonderful job.

For those who plan a trip to Europe, the next Ham Radio at Friedrichshafen will take place June 23 - 26, 1989!



In the picture above, Gerd, DL3ME at left, Klaus, DL7JK at right

QCWA CHAPTER NEWS



Photo by Walter Thompson

Above, L-R are: El Charlton, W5MD; Jim Walsh, W7LVN; BILL HAMMOND, W7OTJ; Florence Majerus, W7QYA; Leland Smith, W5KL and Robert Corbett, W7BC - QCWA CHAPTER 104 officers and National QCWA Officers meeting at Glacier-Watertown Hamfest, July 16. . see story below!

NORTHEAST INDIANA CHAPTER No. 159 of QCWA

Howard Knepper, K9KAL
PO Box 455, Auburn, IN 46706

Northeast Indiana Chapter meets four times annually in a dinner and business meeting combination. The next meeting will be September 11, at which time new Officers will take command of the Chapter.

At our last meeting one of our members, William Moore, W9WM, of Ligonier, IN, pictured below, at left, received a certificate from Chapter President Jim Sellers, K9ZBM. The Certificate was for working QCWA members in each of the 50 states! Bill says, "Headquarters will have to come up with some new Awards as he now has all that they issue!"



The Chapter's new Banner will be displayed at the September meeting!

MONTANA TREASURE STATE CHAPTER No.104

Ian Elliot, W7JMX
1725 Bridger Dr, Bozeman, MT 59715

Montana Treasure State Chapter #104 conducted their annual meeting during the Glacier-Watertown Peace Park Hamfest, July 16. The location for the event was just south of Glacier Park with over three hundred & 39 hams and family members registered. A good representation from National QCWA attended this year with QCWA President, Leland Smith, W5KL; Secretary Jim Walsh, W7LVN and Director, El Charlton, W5MD being present for the action.

Bill Hammond, W7OTJ, owner of the famous 73 ranch was elected President. Florence Majerus, W7QYA became Vice President; Robert Corbett, W7BC, became Chapter Secretary/Treasurer. Ian Elliot, W7JMX will continue as Historian.

The Chapter voted to continue their project of supplying ARRL films and videos to the State Department of Public Instruction for use in Montana schools. A new project of the Chapter will be to attempt to get State regulations changed that limit to one the number of amateur call-letter plates assigned to an individual.

The Fall meeting of the group will be held in the State Capitol.

CHECK YOUR MEMBERSHIP STATUS

Each time we send mail we use a label taken from the QCWA database which shows exactly the information we have on file with respect to your QCWA membership. The top line of the label has several numbers as:

41 5812 03/31/89 29

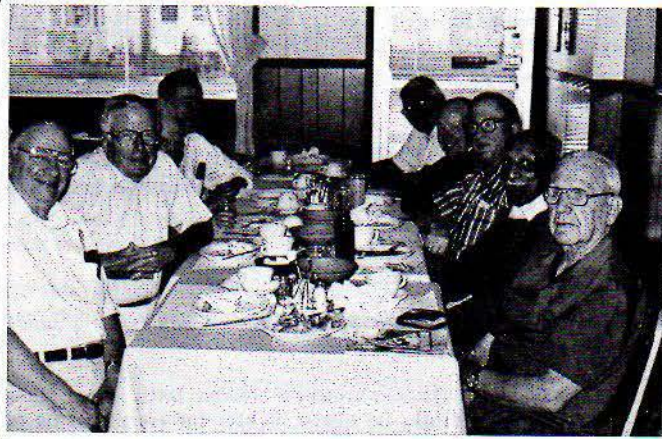
The first number is your "Home Chapter", the second your QCWA membership number, the third is the date through which your QCWA dues are paid and the last is the first year of licensing (1929). Check your label to see that it is correct - notify us of changes!

QCWA CHAPTER NEWS

FINGER LAKES CHAPTER No. 29 - QCWA

Joseph P. Molinaro, W2FUU
7640 Sandy Lane, N Syracuse, NY 13212

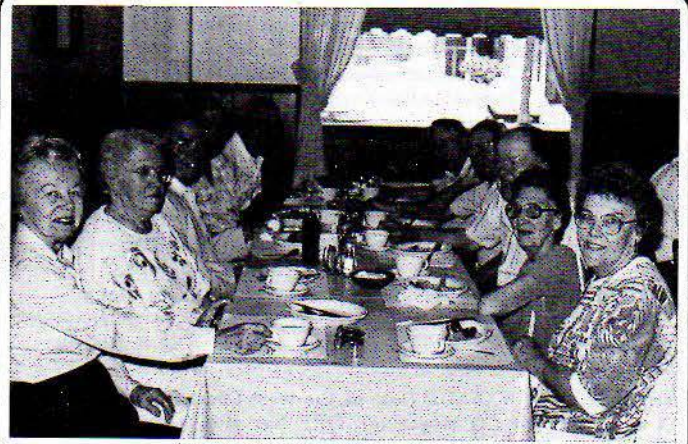
At our recent meeting, we asked everyone to stand and observe a moment of silence in memory of W2AXW, Ralph Renaud, who became a Silent Key on June 20, 1988. Ralph is greatly missed as a member of our Chapter.



Those seated at the "cold weather" side are shown with one imposter W2AK - Charlie and a double take with W2ROO - Bob. Considering the heat and humidity this summer, I doubt if we will have many complaints when winter returns. What about it, Doc?

Don't forget, election of Officers coming up soon. Here is a rundown of those that held office from the early days to the present time:

Ralph Yeandle, W2QXE
Walter Babcock, W2RXW
John Wall, W2BZL
Richard Eaton, W2SBI
Jack Jeffords, W2WS
Bud Cohn, K2GFL



Once again the membership looks forward to welcome back our summer members who winter in the Islands and the sunny South. Attending our June luncheon were the "snowbirds" plus a few imposters seated nearby W2CVI - Bill and W2FB - Howard.

Les Fryer, W2CM
Fred Adsit, W2ZOJ
Charlie Floring, W2AK
Ray Schmitt, W2ABV
Jim Mozley, W2BCH
Joe Molinaro, W2FUU

Do you know of any others? If so report at the next Meeting!

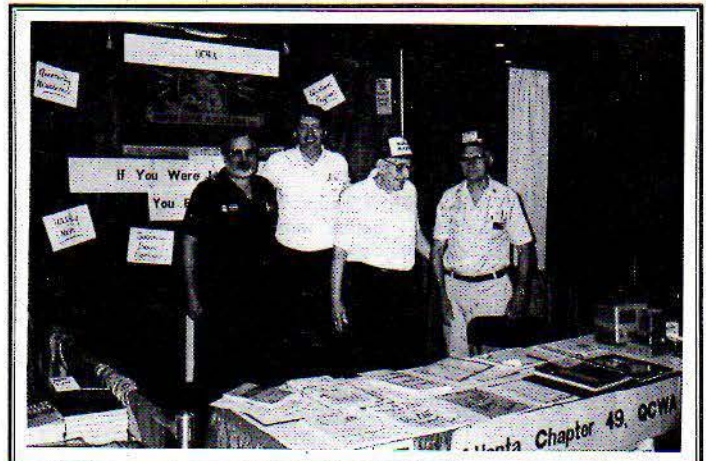
ATLANTA CHAPTER No. 49 of QCWA

Judson F. Whatley, W4NZJ
2157 Windsor Dr, Snellville, GA 30328

Atlanta Chapter has been busy tying up loose ends, by improving communication with membership. We have just established a quarterly bulletin and have been working to get our membership roll in proper order. The Chapter has developed a recruitment handout which has really helped our efforts. Through these actions we are seeing greater interest, more activity and more new members. During the Atlanta Hamfest we signed up fifteen new members alone and, we've followed up to make sure that they did do as they had promised. Our goal is to end the year, 1988 with an overall membership of 65-an increase of 70%. This is all coming about by closely following up on each and every interested potential applicant. The end result is in increase in membership, increased interest and increased stability in our numbers.

The Atlanta Hamfest was very beneficial. We really put on the dog, banners, handouts, posters, and advertisement in the Hamfest Bulletin and announcement on seven metro computer bulletin boards! We really had the visitors and quite a number who haven't quite reached the 25-year mark are eagerly waiting to get into QCWA.

At the Chapter's June 25 meeting 27 members and guests attended. Neil Foster, KC4MJ presented a very interesting and informative slide a presentation regarding his visit and travels in Egypt.

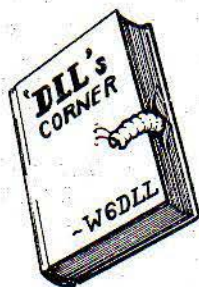


In the picture above, taken at the Atlanta Hamfest, L-R are: Neil Foster, KC4MJ, Vice President; Jud Whatley, W4NZJ; Scty/Treasurer; Marvin Ollendorf, W4HAH, President and Wendell Cushing, K4VN, Director.

A PAUSE TO REFRESH

"DLL'S CORNER!"

DLL'S CORNER, Continued



Bud Neelands, W6DLL, getting a well deserved rest, has received a bit of help in his work of preparing the QCWA Book & Publications material. This issue of the Journal finds the first work of Gene Williamson, K7DBV --- let's introduce him:

Gene Williamson, K7DBV is a freelance writer based in Eugene, Oregon. First licensed in 1958, Gene operates CW -- almost exclusively on twenty -- but can sometimes be found on RTTY, and is eager to try packet. For extra fun this sunspot cycle he's running QRP (five watts out) to a delta loop.

Gene has been married to Ellen since 1967, and they have a daughter, Debbie.

THE JOY OF QRP -- STRATEGY FOR SUCCESS

by Adrian Weiss W0RSP

According to Cass, WA6AUD (late of the West Coast DX Bulletin, now a DX columnist for CQ magazine), QRP has always been a relative term. Meaning if you customarily run the plates on your pair of 4-1000As a nice cherry red, then for you QRP -- reducing power -- would consist of throttling back to the legal limit.

Over the years QRP's also been a relative term to Ade Weiss, W0RSP; under one watt output is where he sees today's challenge, but if you still want to run five watts out that's OK, too.

The enthusiasm Weiss has for truly low power (sometimes called QRPp) crams every page of THE JOY OF QRP with great reading. When you open the book, you'll find "crams" is quite appropriate. Not content to leave any usable page space empty, Ade begins on the inside front cover with mastheads from several recognizable QRP journals, followed by a page of pictures of hams from across the world in their QRP shacks. Then he literally doesn't pause for breath until eight chapters later.

THE JOY OF QRP is one-hundred-fifty-one pages of small type, with quarter-inch top margins and long paragraphs having no extra space between them, every word "devoted exclusively to under five-watt amateur radio."

For sure, whatever your interest in low-power -- building equipment, operating, contests, antennas -- you'll find plenty of solid information in this book.

Weiss begins with a bit of history. Back when dinosaurs roamed the earth, and tubes were encroaching on spark -- around 1925, that is -- we hams routinely ran ten-to-twenty watts input with valves that were designed for receiving use. Efficiencies probably averaged ten-to-twenty percent, meaning this new breed of CW upstarts generally ran under five watts output. Not knowing any better, however, we regularly worked across the US, and often worldwide.

THE JOY OF QRP traces those hams' love of doing more with less forward to today's hobby -- listing numerous currently active QRP clubs, organizations, contests, and awards. Various journals and newsletters are covered, as are QRP nets and calling frequencies.

You won't get far without equipment, and Weiss has that covered superbly. For those who want to roll their own -- from simple to complex -- he discusses circuits, test equipment, and parts sources. Want to buy commercial? You'll find advice on new and used QRP-only rigs, and on taming those QRO beasts.

Operating techniques are crucial when you're 25db down from the legal leviathans, and how to operate is very well detailed. 'Planning for QRP Operation' gets a complete chapter -- selecting objectives, when to operate, antennas, band selection, and propagation.

In another valuable section -- 'General Operating Techniques' -- you'll

find hints for success with specific activities: Field Day, QRP mobile, WAS, and QSO parties.

Weiss closes this book with material on RF power measurements and test equipment. That chapter is as full of specific guidance as the rest.

If you like challenge, you'll like QRP. And if you like QRP, you'll love reading THE JOY OF QRP, STRATEGY FOR SUCCESS.

Available for \$10.95 from Milliwatt Books, 833 Duke Street #83, Vermillion, SD 57069.

#

FALL, 1988 FUNFEST PROBLEMS

1. "Four" in English; "Cinco" in Spanish; "ni" and "san" in Japanese share a common property, what is it?
2. Hasafisti runs (n) times around a circular track whose radius is (t) miles. He drinks (s) quarts of beer for every mile he runs. Prove that he only needs one quart of beer for his efforts
3. If two boys and a girl can beat their father in a tug of war, but their mother can win against a boy and two girls, who can win a contest between the father and a girl, against the mother and a boy
4. Find integers, A, B, C, positive or negative, but non-zero, such that the equation $AX + BX + c$ has roots A and B
5. Hasafisti emptied his pocket. "That's all I've got, just three pennies", he declared. "Okay, you made your point", his wife replied, "But that's funny, they all turned up heads." What are the odds against that happening.

SUMMER FUNFEST PROBLEM ANSWERS

Problem	(1)	(2)	(3)	(4)	(5)
			2,5,8,11		
Answer	'Wrong'	Double (2x)	14,20,23, 26,48	10 1/2	11,1,1,1 1,3,5,5
W4WNY	ok	2x	OK	1/2	1.3.5.5
N7BMX	ok	same	NG	3	9,1,1,1,1,1
W8ANM	ok	2x	NG	1 1/2	11,1,1,1,1
K14V	ok	1.75	OK	1 1/2	11,1,1,1
W0GN	ok	2x	ok	1/2	11,1,1,1
K9BL	?	2x	ok	10 1/2	11,1,1,1
W3EEI	ok	.235	ok	1 1/2	3x3x5
W2BDE	ok	.6501	?	9 1/2	1,1,0,3 9
KA7WSI	ok	2x	ok	1/2+1/2	NG
K6LWS	ok	2x	ok	1/2	NG
K3KTW	ok	86.66%	ok	1/2+1/2	11,1,1,1

Very light response this issue. Thanks to all who tried and wrote to us. The Fall issue problems are pretty challenging.....lets have a good response.

/s/ Harry

Send all of your answers to;

Harry Neben, W9QB
1151 Fairway Drive
Dunedin, FL 34698

Editors Note: See that address (Fairway drive) how long has it been since you hit a fairway drive?

Members Newly Enrolled In QCWA

	21,309 Charles I. Baer	W4ROA	Sunrise, FL	-	W5KL
	21,310 Terence H. Wolfley	WA40EA	Homestead, FL	EL	W5MD
	21,311 F. Norman Ward	K4RBR	Hialeah, FL	Wes	W4COW
	21,312 Jay Evin	WB4RMZ	Pembroke Pines, FL	-	W4COW
	21,313 Mark D. Pallans	WB4KKG	Coral Springs, FL	-	W4COW
	21,314 Sidney R. Teich	N4LTR	Hallandale, FL	-	W4COW
	21,315 LaVant Morell	WA4CTC	Plantation, FL	-	W4COW
	21,316 Julius M. Hoffer	W1DL	Framingham, MA	-	W4COW
	21,317 Peter Brackett	AB4BC	Coral Springs, FL	-	W4COW
	21,318 Murray Singer	K2AUU	Hallandale, FL	EL	W5MD
	21,319 Charles H. Margelli	K7JA	Garden Grove, CA	-	W5KL
02-18-88	21,320 Harris C. Hug	K7CHG	Kent, WA	H.W. Johnston	W7PN
	21,321 Charles F. Kocher	W8CST	Southfield, MI	-	W8LZV
	21,322 Darrell William Drury	K4DRV	Merritt Island, FL	Allen Apple	-
	21,323 Bruce Steinberg	N6LZ	San Francisco, CA	-	W2SCA
02-19-88	21,324 Melvin Page	KE4RY	Lake Placid, FL	-	W4COW
	21,325 Kelsie E. Lawrence	W4GED	Satellite Beach, FL	-	KØREC
	21,326 Charles S. Tankersley	KC4CC	Stone Mountain, GA	-	-
	21,327 Harold Vaughn Lowther	NY4R	Montrose, CO	-	-
	21,328 Frank C. Van Cleef III	W1WCG	North Haven, CT	George G. Spamer	W1DPR
02-22-88	21,329 Joel Thurtell	K8PSV	Plymouth, MI	J. Jan Jellema	W8SWN
02-23-88	21,330 John P. Stowe	KF6KL	San Francisco, CA	Russ Estep	W6AUC
	21,331 Robert C. Mount	KB6MHS	North Highlands, CA	-	-
	21,332 George J. Keltner, Sr.	K8SGM	Parma, OH	Bob Bloor	W8LYD
	21,333 John Eldon Hart	K4ITZ	Chattanooga, TN	-	-
	21,334 Lester S. Morgan	NR7B	Spokane, WA	Don Crisp	W7ZNN
	21,335 George J. Poland	W8FWF	Sun Cith West, AZ	Bill Vaughan	W7CKD
	21,336 Rex A. Paggeot	WA4DNU	Saint Petersburg, FL	-	-
	21,337 John H. Tyson	NUØN	Ottawa, KS	-	-
	21,338 Robert A. Umstead	K8QIE	Lakewood, OH	-	W80XA
	21,339 James G. Gabie	WB6ITV	San Jose, CA	-	-
	21,340 Michael Cipriano	W2TBI	Huntington, NY	-	-
	21,341 James T. Kennedy	KA2GTU	Dover, NJ	-	LA20XW
02-25-88	21,342 Matthew Slavin III	W6LDF	Palm Desert, CA	Leo Meyerson	WØGFQ
	21,343 Emil E. Oana	K6LGI	Palm Springs, CA	-	K6INK
	21,344 Jim Foote	K8KSN	Uhrichsville, OH	-	W80YV
02-26-88	21,345 Charles J. Romane	W1GSZ	Suffield, CT	-	W1FXQ
	21,346 Darryl C. Goebel	K7TTJ	Sarasota, FL	-	-
	21,347 Gary L. Tuck	WA4ZQX	Martin, TN	-	W 4FLW
	21,348 Raymond M. Pohl	KØRPC	Hastings, NE	Frederick J. Bendt	KØFBP
	21,349 Lawrence C. Goodrich	W9HTK	Greenfield, IN	-	-
	21,350 Richard C. McRoberts	WB9ZIP	Olympia, WA	-	W4COW
	21,351 Edgar A. Chamberlain	W8BNS	Sarasota, FL	-	W4COW
	21,352 Arnold Broox Owen, Jr.	N5NS	Shreveport, LA	Charles Dykes	K4CUU
02-09-88	21,353 William O. Kersh	WJ4Z	Palm Beach Gardens, FL	-	-
03-01-88	21,354 Raymond I. Vickland	KØBTZ	Omaha, NE	-	-
	21,355 Leona P. Hotchkiss	KA4WPL	Inverness, FL	Eunice Gordon	W1VKR
	21,356 Garth Kennedy	W9KJ	Hinsdale, IL	-	-
	21,357 Irving Glassman	K1SEO	Branford, CT	Al Cohen	W1FXO
	21,358 Alf Sewell, Jr.	K5DPH	Jacksboro, TX	-	-
	21,359 Jerome Block	W2NUU	Brooklyn, NY	-	KA21XW
	21,360 Lester K. Hosford	K8AJC	Eagle, MI	John Hewitt	K8DHN
	21,361 Erich C. Mehnert	K3ZOB	Harrisburg, PA	-	-
	21,362 James J. McGovern	WA2YKH	Farmingdale, NY	Frank Fix	K2AW
	21,363 Nancy Y. Palmer	W3KOG	Wilmington, DE	Len Yerger	K6SS
03-02-88	21,364 Joseph C. Ennis	K16NU	Green Forest, AR	Leland Smith	W5KL
03-03-88	21,365 Richard W. Hayman	K3DML	Rockville, MD	-	W5KL
	21,366 Billy A. Leopard	N4MHQ	Opelika, AL	-	-
	21,367 Robert W. Parsons	K5PGC	Bartlesville, OK	-	-
	21,368 Albert D. Mountain	KC4ZD	Seminole, FL	Lois N. Bixler	W4PQN
	21,369 Mark W. Munson	AF1Z	Palm Beach Shores, FL	-	-
	21,370 Arthur H. Feller	KB4ZJ	McLean, VA	-	K4PDA
03-04-88	21,371 Robert W. Williams	WAØFMR	Fremont, NE	-	KØJFN
	21,372 Gregory R. Barron	N9KKU	Homewood, IL	-	-
	21,373 Michael Ortleib	KN9P	Hilbert, WI	-	-
	21,374 Andrew Kalnasy, Sr.	W7LRX	Las Vegas, NV	L.M. Norman	-
	21,375 Connie O'Donald, Jr.	WA4HZN	Charleston, SC	-	-
	21,376 W.H. Jacobs	K5WTA	Point Mugu, CA	-	-
03-07-88	21,377 Paul L. Stumpf	W3AQN	York, PA	William H. Boyer	W3AMQ
	21,378 Alex Kaplinsky	WA5UNY	Farmers Branch, TX	Julia Young	-
03-08-88	21,379 Robert J. Tilman	K7CJW	Chino Valley, AZ	-	-
	21,380 William E. Becker	K8TDN	Miamisburg, OH	-	W8PH
	21,381 Jean L. Smitha	KK4WB	Tequesta, FL	-	-
	21,382 James F. Burnett	N5FVF	Baton Rouge, LA	El Charlton	W5MD
	21,383 Richard M. Gillingham	W4PJI	Hillieah, FL	El Charlton	W5MD
	21,384 Gerald E. Wood	W5USD	Trinity, Tx	Charles Thomsen	W5OP
	21,385 Philip C. Noble	W2UKA	Liverpool, NY	Joseph P. Molinaro	W2FUU
	21,386 Anthony R. Manser	AF7J	Bountiful, VT	Ira Parkes	K7ERR
	21,387 Andrew J. Chapman	KE4VK	Sebring, FL	Edward C. Lange	KB4PYB

Members Newly Enrolled In QCWA

03-09-88	21,388	Michael W. Babb	N4PF	Louisville, KY	Ethel Smith	K4LMB
03-10-88	21,389	Banner Edwards	VE3SU	Etobicoke Ontario Canada	-	-
	21,390	Harvey Wittner	KA4EEF	Tampa, FL	Blanche Randles	W4GXZ
	21,391	Monroe P. Bean	K1ANM	Hollis Center, ME	Carl Watson	W1NV
	21,392	Lynn R. Hammond, III	KL7IKV	Anchorage, AK	-	-
03-14-88	21,393	Dick Boatrom	N7JTV	Shelton, WA	Harold Johnston	KB7BVC
	21,394	Robert J. Carroll	K5TE	El Paso, TX	Gerald J. McTernan	W5YV
03-15-88	21,395	Bruce M. Halvorsen	K9CNV	Roseburg, OR	Neil McKie	-
	21,396	Herman L. Tippie	WA8HER	Lebanon, OH	Don Fisher	-
	21,397	Wayne M. Carpus	WB2ZDP	Tonawanda, NY	Ray F. Griswold	W2SD
	21,398	Pierson Stell	W4FEW	Winder, GA	-	-
	21,399	Baity Bartel	W2LQ	Denton, TX	-	-
03-16-88	21,400	James K. Richardson	KB5NB	Denham Springs, LA	El Charlton	W5MD
	21,401	William E. Barnes	K5GE	San Antonio, TX	-	-
03-17-88	21,402	David L. Schwadron	N2HNO	East Northport, NY	-	-
	21,403	Joe Juliano	WV5X	Austin, TX	Roy S. Miller	W5FOZ
	21,404	Mario J. Maltese	N2HXD	Williston Park, NY	-	-
03-18-88	21,405	John A. Zendler	W2NDY	Dade City, FL	Blance Randles	W4GXZ
	21,406	Roger A. Purdy	WB2HUV	Lakewood, NJ	Blanche Randles	W4GXZ
	21,407	Earl H. Mann	VE3PTF	Rexdale Ontario Canada	-	-
	21,408	Sherwin B. Rodman	AA6AO	Northridge, CA	Gene Stephens	KA6HQQ
	21,409	David J. Lowenstein	N7AF	Tempe, AZ	-	-
	21,410	Michael Caputo	K3YAK	Meadville, PA	-	-
	21,411	Edwin J. Willis	KC5Y	Chalmette, LA	El Charlton	W5MD
03-21-88	21,412	J. Kirk Sanderson	W8WNA	Broadview Heights, OH	-	W8UYN
03-22-88	21,413	Jane C. McIver	WA4JXJ	Cincinnati, OH	Jack H. Mahler	W5NII
03-23-88	21,414	Ronald A. Jacob	K4PD	Shalmar, FL	John F. Zwaska	W4WKQ
	21,415	David A. Floyd	W9MPD	Boulder City, NV	L.M. Norman	W7PBV
	21,416	Ronald M. Thomas	N4RT	Robertsdale, AL	John F. Zwaska	W4WKQ
	21,417	Reuben C. Kanzler	K7OSM	Boulder City, NV	L.M. Norman	W7PBV
	21,418	Wilma L. Kanzler	K7OSN	Boulder City, NV	L.M. Norman	W7PBV
	21,419	Florence Hilda Perkins	WNITXD	Nobleboro, ME	-	-
	21,420	Richard Erlon Perkins	NIRP	Nobleboro, ME	L.M. Norman	W7PBV
	21,421	William E. Doughty	W9UIX	Atlanta, GA	Neil R. Foster	KC4MJ
03-24-88	21,422	Ray J. Cornay, Jr.	N5DIJ	Newman, GA	El Charlton	W5MD
	21,423	Harry Sussman	K2MUQ	Great Neck, NY	-	KA2IXW
	21,424	Woodrow Wilson, Jr.	K1OQG	Voluntown, CT	Milt Chaffee	W1EFW
	21,425	Ellis Keaton Surratt	W7KJA	Missoula, MT	Phil Coulter	-
	21,426	Roger F. Miller	NØNA	Bremerton, WA	-	-
	21,427	Robert B. Finch, Sr.	W6UWP	Reedsport, OR	-	W5KL
	21,428	John E. Wiik	WAØASU	Shoreview, MN	Ed Wiik	WØUGP
	21,429	William T. Allen	KB2PQ	Saratoga Springs, NY	-	-
03-25-88	21,430	Jeryl K. Wright	NK2C	Camilius, NY	Jim Mozley	W2BCH
03-28-88	21,431	Cecil Mundorff	K3DCU	Felton, PA	Raymond A. Shaub	W3AXC
	21,432	Lois Jean Mundorff	K3UQB	Felton, PA	Raymond A. Shaub	W3AXC
	21,433	Frederick K. Smallwood	WA4JVL	FPD, NY	-	-
	21,434	Walter David Herbert	N6LW	King City, CA	-	-
	21,435	Max V. Pickel	K3COA	Broque, PA	R.A. Shaub	W3AXC
	21,436	Thomas Folkes	WØPDT	Cherokee, IA	Al Smith	-
	21,437	Thomas D. Jenkins	WA8VDC	Newport, MI	-	-
	21,438	James R. Krynkowski	K9WYB	Plano, TX	-	-
03-31-88	21,439	R.E. Strack, Jr.	K6CNB	Covina, CA	-	W2VAV
	21,440	Richard E. Newsome	WØHXL	Omaha, NE	J.T. Brackett	KØJFN
	21,441	Malcolm C. Edelblute	W3YIY	Kirtland AFB, NM	Mike Eyman	WØXM
	21,442	Walter Charles Muth	KC3NP	Towson, MD	-	-
	21,443	William L. Gorodetzer	K3MFI	Holland, PA	-	-
	21,444	John-David F. Bartoe	W4NYZ	Reston, VA	Leland Smith	W5KL
	21,445	Robert W. Bioemker	KØWEX	Saint Louis, MO	John Ellison	WØERZ
	21,446	Richard A. Gurfein	WD2R	Jericho, NY	-	WØ2DIN
	21,447	Ruben M. Livingston, Jr.	W4FBI	Hueytown, AL	-	-
	21,448	John Ferree	W7NI	Boise, ID	-	-
	21,449	Elza G. Runkle	NØIXM	Orrick, MO	-	-
04-04-88	21,450	Lena R. Kopp	N7HKW	Anaconda, MT	Kenneth G. Kopp	KØPP
04-05-88	21,451	Robert L. Koonce	W3GOU	Odenton, MD	-	-
	21,052	John N. Beebe	KE7ZY	Eugene, OR	Wes Randles	W4COW
	21,053	Carl A. Johnson	WØGAJ	Colon, NE	J.T. Brackett	KØJFN
	21,454	Hans E. Lundquist	W9NJJ	Pontiac, IL	Ted Vose	K9QOF
	21,455	Phil Hentges	W4PFK	Dundee, FL	-	-
04-06-88	21,456	Myriam R. Gregg	K8ILN	Ionia, MI	Beverley Stoner	K8ZJU
	21,457	John A. Draus	WØEKB	Omaha, NE	-	-
	21,458	Donald L. McMinds	WD7X	Corvallis, OR	-	-
04-07-88	21,459	Harry L. Brundridge, Sr	NFØX	Hermitage, MO	-	-
	21,460	Walt Hagen	WA2ALV	Glens Falls, NY	-	-
04-08-88	21,461	Shirley Wilkerson, Jr.	W4TBU	Henderson, KY	Tom Webb	W4YOK
04-12-88	21,462	Ed Gribi	WB6IZF	King City, CA	-	-
	21,463	Raymond J. Levesque	K1ZZN	Somerset, MA	Onie Woodward	W1ZEN
	21,464	Charles W. Kirton	WØMLR	Newton, KS	-	-

Barney's Antique Exchange

Managed by Barney Moffatt
W5CJZ

5714 Trail Meadow Drive, Dallas, Texas 75230

Quite a few QCWA Members are interested in the old-times and have suggested that we keep this vehicle to permit QCWA members to swap parts, information and so search for a special bit or part needed to restore, rebuild or go from scratch on old equipment. Barney's Exchange has been popular in this role for more than four years now.

Barney has kept records and corresponded as required to coordinate the whole thing. Whatever you might need in the way of parts, or information, send your requirement to Barney. He'll see that it's published herein, and help in every possible way to see you get those needed items. A few rules for operation of the exchange have been published since the beginning:

- (1) List what you have (or need) clearly
- (2) List what you will accept in trade
- (3) List your asking price if not trade is possible
- (4) If you advertise, hold merchandise for those who will read the Exchange column
- (5) Answer all inquiries

There is no cost to QCWA Members, neither QCWA, its officers, Board of Directors, manager or other agents assume responsibility for loss or misrepresentation to anyone.

WANTED: Stancor Model 10-P transmitter, any condition!

Robert L. Kurth, W5IRP
403 Mantooth
Lufkin, TX 75901

FOR SALE: RCA Radiola III, Type R, -- \$50. Hickok Tube Checker-Micromho, Dynamic Mutual Conductance, Model B1-10700, with manual -- \$50.00. Tube tester Signal Corps War Department Model 1-177, 06/31/44 Mutual conductance, with manual -- \$20.00. You pay shipping charges on all.

Lewis A. Weber, K4HWS
3135 US 19 N, #228
Clearwater, FL 34621
814 784 8428

FOR SALE: Re-live the thrilling days of yesteryear - Lafayette KT-200/HD-1, similar to S38, mint, with manual - \$50.00. Collins 312 B-4, mint - \$160.00. Atlas 210X, console, microphone - \$375.00

Hank Goldman, WA2OVG
36 West 44th St #1415
New York, NY 10036

WANTED: WW II Navy GP-7 transmitter!

Paul Gregg, W9POC
725 College Way
Carmel, IN 46032

FOR SALE: Complete set of Popular Electronics Magazine 1955 - 1979; QST 1950 - 1960, in binders (except 55,59).

Mike Grimes, K5MLG
3805 Appomattox
Plano, TX 75023

WANTED: Manual for FB-7, Manual or any information on Peak P-11 pre-selector, & National MCS speaker

Steve Barnes, K6PFW
848 N Silverwood
Upland, CA 91786

WANTED: ARRL amateur handbooks or the "Radio" Handbooks, editions before 1950. Send conditions and prices.

Charles Simmons, W6POH
PO Box 6238
Buena Park, CA 90622

FOR SALE: Collins 75A4 Receiver; Central Electronics 100V Transmitter -- above complete with D-104 microphone and Hallicrafters separate speaker -- all in good working order, clean. All technical manuals no modifications. Sold in package only, \$750 FOB Anchorage, AK.

H. W. Hitchen, KL7PG
3931 Brentwood Circle
Anchorage, AK 99502
907 248 3308

WANTED: Early crystal sets, commercial or homemade, also components for Earl crystal sets. Sargeant receiver; Gonset super-ceiver; catalogs; manuals and literature for early amateur equipment.

Steve Barnes, K6PFW
848 N Silverwood
Upland, CA 91786

NEED: Schematic and Service manual for RCA Oscilloscope type WO-91A.

Russell R. Williams, W9BXP
RR4, Box 294 Little Acres
Seymour, IN 47274

NEED: Part 32-A (pinion bushing gear) for HY-GAIN Roto-Brake Model RBX-1 Rotor- and/or-Control for HY-GAIN Model 400 Rotor.

Richard Sisley, K8JKB
1218 Northside Avenue
East Liverpool, OH 43920

WANTED: SWAN 350 transceiver "S" meter (also reads current). Has red Swan on lower center of dial.

Lenard H. Johnson, W6JUH
1060 Macadamia Dr
Hillsborough, CA 94010

FOR SALE: Telegraph practice sets, Brass Keys, Sounders, Resonator Boxes, Two station systems. Send dollar bill for Telegraph Catalog.

W. C. Hess, W6CK
BOX 19
Pasadena, CA 91102

WANTED: Any low-power CW transmitters, such as WRL CW-7, Philmore NT-200, or Homebrew 1950s - 1960s era. Also, Dow Key bug and Matric Model 50 QRP transmitter.

Gary Wagner, K3OMI
11124 Oak Hollow Rd
Knoxville, TN 37932
615 690 4217 (days)

FOR SALE: Teletronix LA3A levelling amp, automatically reduces audio peaks; Dynair Model 280B audio pre-amp on 4" rack with monitor spkr; Sony lapel mike (used); Lots of tubes, new & used . . . best offer.

Harry Adelman, W2JYV
2762 3rd PL
Baldwin, NY 11510
516 223 5454

MEMBERSHIP AWARDS AND SUPPLY INFORMATION

AWARDS

CERTIFICATES AVAILABLE TO MEMBERS

MEMBERSHIP CERTIFICATES, numbered in serial order are issued to each member. Numbers are not re-issued except to the same one to whom they were first issued.

QCWA GOLD CERTIFICATES celebrate the 50th anniversary of your first license, issued to eligible members upon proof of such licensing. Certificate issued without charge.

ENDORSEMENTS for the Golden certificate, in 5-year increments, 55-60-65-70-75 year. The endorsement sticker are free of charge to eligible members.

GOLDEN 50-YEAR CERTIFICATE FOR CONTINUOUS LICENSING is available to eligible members upon submission of proof of licensing. There is a \$5 fee. Proof requires a list of all calls, years held and other pertinent information.

QCWA CENTURY CLUB CERTIFICATE is issued to QCWA members whose age when added to the number of years as a member of QCWA equal 100 or more. There is no charge for the Certificate.

MERITORIOUS AWARD is issued by Headquarters, upon the request of any Active QCWA Chapter, one such award per chapter each year. The award may be given to Chapter members for unusual dedication to QCWA & Amateur Radio. There is no charge for the Certificate.

OPERATING AWARD CERTIFICATES

QCWA Operating Award certificates are issued to QCWA members by the Activities Manager. Proof of eligibility is required.

QCWA WORKED 50 STATES awards are issued to QCWA members who have contacted members in each state of the Union.

QCWA WORKED 100 MEMBER awards are issued to QCWA members upon proof of eligibility

QCWA WORKED 60 CHAPTER awards are issued to QCWA members upon proof of eligibility

QCWA WORKED 500 MEMBER awards are issued to QCWA members upon proof of eligibility

IN ADDITION, PLAQUES ARE AWARDED TO THE HIGHEST SCORING MEMBER FOR BOTH THE PHONE & CW QSO PARTIES. Runners up receive certificates.

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QCWA Lapel pin, gold plates with call engraved. These pins come only in clutch pin style, with year tags. Specify year (25, 30, 35, 40, 45, 50, 55, 60, 65, 70 and 75)	\$9.00
QCWA Life Member Pin	\$5.00
QCWA Blazer Emblem, embroidered	\$5.00
270 QCWA Red membership (regular) stamps	\$2.50
270 QCWA Gold (Life Member) stamps	\$2.50
250 QCWA Yellow (50 Year) stamps	\$2.50
QCWA Logo on rubber stamp (about 1/2")	\$5.00
QCWA Logo on decal	\$1.00
QCWA Cap with logo, fits all	\$5.00
QCWA Chapter Banner 30 x 48, Chapter name & Number included QCWA pays half cost for banners!	\$110.00

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Irving, TX 75061

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IT IN EARLY IF YOU CAN